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# Christman, G.

## 1943-94

### General Index

### Catalogue

1943-1968

#1-1201

### Journal

1965, 1974-1976    Calif: Alameda, Marin Cos.

1986-1994    Calif: Alameda Co., Berkeley



Christman, G.  
1943-94

Catalogue

1943-1968 #1-1201



November 23, 1943 Ontario, San Bernardino Co., Calif.

1. ♂ Citellus beecheyi

426-190-52-24

Corn + seeds in right cheek, stomach empty  
no skull

JUNE 18, 1945 State Gamefarm, Chino, San Bernardino Co., Calif.

2 ♀ Mustela

Skin measurements  $16\frac{1}{2}" - 5\frac{1}{2}" - 13\frac{1}{8}"$  skull

January 24, 1944 Foothills N. Upland, San Bernardino Co., Calif.

3. ♂ Corynorhinus rafinesquii

$3\frac{1}{2}" - 1\frac{1}{2}" - 1\frac{1}{4}"$  - (N.)  $1\frac{1}{4}"$ ; one wing spread  $4\frac{1}{2}"$

Bill Rugg + Richard Reeder

February 5, 1944 Ontario, San Bernardino Co., Calif.

4. ♂ T.E. Passer

T.L. -  $5\frac{3}{4}"$

AUGUST 29, 1945 5 mi. S. Ontario, San Bernardino Co., Calif.

5. ♀ Passer domesticus domesticus

T.L. -  $9\frac{1}{4}"$ ; stomach empty

September 25, 1944 Ontario, San Bernardino Co., Calif.

6. ♂ T.N.E. Geothlypis trichas

T.L. - 130 mm.; very fat; found dead (fractured skull) on  
football field under wires at Chaffey by Roland L. Christman



COLLECTION

November 25, 1945 Joshua Tree National Monument, Riverside Co., Calif.

7. ♂ Peromyscus

188-95-20

apx. 3500' feet; trapped under outcrop ledge.

skull

February 17, 1902 Iquala, Guerrero MEXICO

8. ♂ Aimophila acuminata

collected for Field-Columbian Museum, Chicago by Geo. F. Breninger  
from Zumach

October 1887 Austria

9. ♀ Saxicola oē. oēnanthe

from Collection of Charles D. Klotz; from Zumach

April 16, 1891 "Jalapa"

10. ♀ Thraupis abbas (Lichtenstein) Abbot's Tanager

identified by K. Stager, Los Angeles County Museum  
from Zumach

JUNE 16, 1906 Boruca

11. ♂ Cercomera tyrannina oreopepe id. by

"Explorations of C. F. Underwood in Costa Rica"  
from Zumach

March 7, 1922 Australia

12. ♂ Poephila acuticauda

"Coll. of Henry K. Coale, Highland Park, ILL. No. 26404  
Bill + feet coral



[N.W. Australia]

13. ♂ Munia pictoralis (Gould)

cage bird coll. of H.K. Coale, from Zumach

November 18, 1944 Ontario, San Bernardino Co., Calif.

14. ♂ Sialia mexicana

T.L. - 148 mm. found dead at Chaffey.

~~October 24, 1945 China, San Bernardino Co., Calif.~~



COLLECTION

October 21, 1945 Chino, San Bernardino Co., Calif.

21. ♀ Buteo borealis

coll. by Robert Hanna T.L. - 545 m.m. feet - light yellow; claws - black;  
iris - brown; gape - yellow; cere - greenish - yellow

November 17, 1945 State Game Farm; Chino, San Bernardino Co., Calif.

22. ♀ Eudromia elegans crested Tinamou

Died - gift from E. D. Platt, superintendent C.F. & G.

November 25, 1945 Pinto Basin (25 mi. SSW of twenty-nine Palms) Riverside Co., Calif.

23. ♀ Amphispiza bilineata

shot with .410; Bill - bluish. Alluvial fan; hot, dry desert. T.L. - 125 mm.  
stomach - small seeds & insects.

December 2, 1945 2 mi. E. of Euclid Ave., on 19th Street; Upland, San Bernardino Co., Calif.

24. ♂ Dipodomys

271-158-43

D.O.R.; Pouches full of small green leaves & (weed) seeds.

September 16, 1945 State Game Farm, Chino, San Bernardino Co., Calif.

25. ♂ Aix sponsa  
(T.N.E.)

Sick bird - from Fred Hien; T.L. - 17 7/8"

December 14, 1945 W. Desai St., Ontario, San Bernardino Co., Calif. Elev. 1000' Apt.

26. ♀ (E.N.E.) Lophortyx californica

T.L. - 235 m.m.; one wing 140 mm.; coll. by Glenn Goldsmith  
seeds in stomach

December 14, 1945 W. Desai St., Ontario, San Bernardino Co., Cal. Elev. 1000' Apt.

27. ♂ Lophortyx californica

T.L. - 240 m.m. coll. by Glenn Goldsmith



COLLECTION

September 1945 "Imperial Valley" Calif. (Imperial Co.)

28. ♂ Phasianus colchicus

Gift of Misaldine

October 2, 1945 S. of Ontario, San Bernardino Co., Calif.

29. ♀ Corvus brachyrhynchos

coll. by Ed Schultz; pre. by R.H. Miller

October 13, 1945 Ontario, San Bernardino Co., Calif. elev. 1000' Apx. +

30. ♀ Aphelocoma californica

coll. by Gene Marshall, in Orange Grove T.L. - 265 m.m.

October 14, 1945 N.E. of Upland, San Bernardino Co., Calif. 8: A.M.

31. ♂ Sturnella neglecta

T.L. - 238 m.m. in dry sage brush; feet & legs - pale whitish-pink

JAN. 15, 1946 State Game Farm; Chino, San Bernardino Co., Calif.

32. ♂ Fulica americana

Killed in duck trap - E.D. PLATT, Superintendent, C.F. & G.

February 17, 1946 Mockingbird (or Holden) "Lake" Game refuge near

Arlington; Riverside Co., Calif.

33. ♂ T.E. Geococcyx californianus

From E.D. PLATT, Superintendent, C.F. & G. Game Farm, Chino.

This bird along with a ♀ (to G. Compton, Pa.) were caught in a quail trap. (♀ eggs well developed) A Stomach

Analysis showed 2 whole white-crowned Sparrows in each stomach (SAVED), Eye 8 m.m. Iris brown with a yellow ring.



NUARY 1946 11 mi. N. of Milford; Mill Rift, Pike Co., Pa.

34. ? Cyanocitta cristata

trade with George Compton

arch 29, 1948 Ontario, San Bernardino Co., Calif.

35. ♂ T.V.E. (16x8 m.m.) Spilopelia chinensis

iris-yellow (5 m.m.); T.L. 11 3/4" found dead in tennis courts,  
internal bleeding + blood around eye believed to hit wire sides.  
Stomach - much grain + seeds.

1946 Chino, San Bernardino Co., Calif.

36. ♂ Leptolophus aricomis

Pet of Wm. Johnson

AY 6, 1946 Ontario, San Bernardino Co., Calif. ELEV. 1000' APX. +

37. ♀ E.(O.) S. En. Hylocichla guttata

T.L. - 162 m.m. found dead on Chaffey Hl. School campus.  
Stomach - empty

une 10, 1946 State Game Farm, Chino, San Bernardino Co., Calif.

38. ♂ Nyroca americana

T.L. - 17 1/4" died; gift of E.D. Platt + Fred Hien C.F. + G.

1946 11 mi. N. of Milford; near Delaware River; Mill Rift, Pike Co., Pa.

39. ? Bubo virginianus

trade with G. Compton; strong SKUNK odor.

AUGUST 29, 1946 W. Slope of Lone Hill; E. of Upland, San Bernardino Co., Calif.

40. ♂ T.E. Citellus

18" - 7" - 2"

very fat; bait rasins; trapped in burrow entrance in go ard  
patch. no. skull



COLLECTION

August 31, 1948 Big Pines; Los Angeles Co., Calif.; Elev. 6500', A.M. Early

41. ♀ E.S. Cyanocitta stelleri

T.L. - 11  $\frac{3}{8}$ " transition L.Z.; trapped (rat) with pan cake,  
crop empty, but full of sand.

September 1, 1946 Big Pines; Los Angeles Co., Calif. Elev. 6500'

42. ♂ T. fairly En. Peromyscus

no meas.

trapped under rotten log; before 8:30 P.M., bait bacon, N. side of hill

43. Peromyscus

October 6, 1946 Imperial Co., Calif.

44. ♂ T.V.S. Oberholseria chlorura

coll. by Eugene Cardiff. iris - brown

October 6, 1946 12 mi. (N.W.) of Westmoreland, Imperial Co., Calif.

45. ♀ E.V.S. Catoptrophorus semipalmatus

Coll. by Eugene Cardiff T.L. - 15  $\frac{3}{4}$ "

October 6, 1946 12 mi. N.W. of Westmoreland, Imperial Co., Calif.

46. ♀ E.S.E. Himantopus mexicanus

coll. by Eugene Cardiff T.L. - 14  $\frac{3}{8}$ " eye - red; feet - pinkish-gray; fat

November 8, 1946  $\frac{1}{2}$  mi. W. of Cucamonga Canyon, N. of Upland, San Bernardino Co., Calif.

47. ♀ Neotoma

13  $\frac{7}{8}$ " - 6  $\frac{3}{4}$ " - 1  $\frac{1}{2}$ " no skull? near streambed; W. slope; 4 mammary  
gland between hind legs; no external parasites.

48. Neotoma



COLLECTION

November 30, 1946 2 mi. S. of Stodards Wells, 18 mi. N.E. of Victorville,  
San Bernardino Co., Calif., near small bush, Joshua trees about

49. ♂ imm. Peromyscus

6  $\frac{3}{16}$ " - 3  $\frac{1}{2}$ " -  $\frac{3}{4}$ " resin bait

December 28, 1946 Armstrong sub-nursery, Ontario, San Bernardino Co., Calif.

50. ♀ E.N.E. Zenaidura

G.M.C. + G. Goldsmith T.L. - 154 mm.; small seeds in stomach.

January 1, 1947 Armstrong sub-nursery (S.), Ontario, San Bernardino Co., Calif.

✓ 51. ♂ T.F.E. Accipiter cooperi

coll. by Earl Goldsmith; stomach - little hair + oat (shell) cereals.

testes deep yellow-orange; iris - yellow; no internal + external parasite.

January 2, 1947 Ontario, San Bernardino Co., Calif.

52. ♂ T.N.E. Aphelocoma californica

coll. by G. Glenn Goldsmith; T.L. - 11"; stomach - some small  
black seeds, grit, unidentified material + "one mouth full of  
belly feathers (? downy)."

January 3, 1947 Ontario, San Bernardino Co., Calif.

53. ♂ Euphagus cyanocephalus

coll. by G. Goldsmith; iris - yellow

January 15, 1947 Hoard's Canyon;  $\frac{1}{2}$  mi. W. Cucamonga Canyon, N. of Upland,  
San Bernardino Co., Calif. 203-110-23

54. ♀ Peromyscus

(feet)  
Trapped on west wall, East exposure, 50 yards from  
floor of canyon near mouth, on steep slope, rocky,  
(chamise)  
grease-wood, club-moss, kals dugell over side of hill; bait peanut butter.



COLLECTION

February 18, 1947 S. of Ontario, San Bernardino Co., Calif.

56. ♀ Falco sparverius pallidus

coll. by G. Goldsmith; pre. by R. H. Miller; iris - brown

March 28, 1947 Ontario, San Bernardino Co., Calif.

57. ♀ E. Well Dev. Aphelocoma californica

coll. by John Nemith; iris - brown; stomach - sand, 3 grams of "wheat", small pieces of egg shell. "Skull still fairly soft"

April 12, 1947 Ontario, San Bernardino Co., Calif.  
E.W.D.

58. ♀ Otus asio

coll. by R. Salesberry (injured bird) T.L. -  $8\frac{1}{4}$ ", iris - yellow

April 12, 1947 Hoard's Canyon;  $\frac{1}{2}$  mi. W. of Cucamonga Canyon, N. of Upland, San Bernardino Co., Calif. Elv. approx 2300'

59. ♂ T.V. Large Neotoma

$12\frac{3}{4}$ " -  $6\frac{1}{16}$ " -  $17\frac{1}{16}$ "

trapped west wall of canyon, where stream crosses road (near Sycamore trees), brush on floor, fleas preserved, strong musky odor

April 19, 1947 Hoard's Canyon,  $\frac{1}{2}$  mile W. of Cucamonga Canyon, N. of Upland, San Bernardino Co., Calif. Elv. approx  $2(5)\frac{3}{4}00'$

60. ♂ T. Fairly Enl. Neotoma

"Caught in rat trap on super mixture 5' from rat hut which is on a ledge, caught two feet up on ledge, is very narrow part of canyon approx 25 yards S. of den. Deeply shaded, damp, cool cliffs about. A few odd lumps under skin about ventral hind legs - saved one, also are small "worm" from ventral part of neck embedded in apt in dermis - , musky odor."

April 21, 1947 Ontario, San Bernardino Co., Calif. Armstrong Sub-horseshoe - S.

61. ♂ T.E. Antrozous pallidus

108-40-13-25 (outside)

G.M.C. + G. Goldsmith, found in rafters of barn, another captured (in formalin) one arachnida found (preserved) was alive after I killed but one mite before - Carbon - tot wing span - 14"



COLLECTION

AY 5, 1947 Hoards Canyon; 1/2 mi. W. of Cucamonga Canyon, N. of Upland, San Bernardino Co., Calif. Elev. Appx. 2500'

62. ♂ T.N.E. Eutamias merriami 9"-4"-1 3/8"

Shot with #10 (1 1/2 shot) 25' distance at 5:30 P.M. in cool shaded canyon (below dam 25 yd.), was in tree over small stream of water. (see notes) Stomach partly digested, finely chewed veget. matter of pale green color, full (now believed to possibly be elderberry leaves) no parasites found

ie 29, 1947 on road near Cal-Aero, S. of Ontario, San Bernardino Co., Calif

63. ♂ Imm. T.N.E. LANIUS

T.L. 8"; near open grain fields, all middle tail feathers gone. Stomach - insects, Jerusalem Cricket, 3 "saw" bugs, & many extra parts, exoskeletons; numerous malophaga - not saved.

AUGUST 6, 1947 Hatchery creek, off McKenzie River, E. of EUGENE, LANE Co., OREGON; in pole trap over hatchery ponds.

64. ♀ E.N.E. Megasceryle alcyon

T.L. = 13 3/8, tarsus - m. 1/2", stomach empty; iris - brown

DECEMBER 20, 1947 Crown Point, San Diego, San Diego Co., Calif

65. ♀ E. small Anthus spiroletta

T.L. - 155 m.m. Found dead on large open lawn, stomach empty, colon milky, no ectoparasites no signs of acc. or dis. death. a little fat.

DECEMBER 21, 1947 N.E. corner of W. half of Mission Bay, Crown Point, San Diego, San Diego Co., Calif.

66. ♂ T.E.

found sick on shore by A. Boyden, died later, excreta green, wound on left humerus. Stomach - full of vegetable material (seems to be fine sea grass). Iris - flaming red with very thin line of silver about pupil, feet above - dark green; below - light blue + pink (a little green also)



COLLECTION

ch 23, 1948 Vallecito STAGE STATION, San Diego Co., Calif.

✓ 67. ♀ Accipiter cooperii

Both ovaries developed. Caught in coyote trap by cowboys  
stomach empty, internal organs in good condition.

rch 23, 1948 Vallecito Stage Station, San Diego Co., Calif.

68. ♂ Dipodomys

230-135-36 m.m.

just 19, 1948 Bluff Lake, San Bernardino (mountains) Co., Calif.

69. ♂ T.V.S. Oberholseria chlorura

Caught in mouse trap with peanut, a little fat

cember 25, 1948 near Santa Ana River, W. of Corona, Riverside Co., Calif.

✓ 70. ♀ R. l.

found by Chas. Bradford T.L. - 19"

iris - brown; feet; pale yellow; cere "deep, but pale" yellow

January 27, 1949 2 mi. N.; 1 3/4 E. Fallbrook, San Diego Co., Calif. Elev. 400'  
along Santa Margarita River

Diego State  
College Collection

71. ♂ T.S. Pipilo maculatus

wt. 42 gm.; T.L. = 7 1/2"; shot after sundown in low limbs of oak.

January 28

72. ♂ (ad.) Balanosphyra formicivora

wt. 70 gm. shot 7:30 A.M. in sycamore in river, bed  
mallophaga saved (on throat)

Diego State  
College Collection

73. ♂ T.N.E. Balanosphyra formicivora

wt. 77 gm. shot 7:30 A.M. in Sycamore, in river bed

January 27

74. ♀ Colaptes cafer

wt. 146 gm. shot from Sycamore

January 29

75. ♂ ad. Ixoreus naevius

shot in oak; on small limb 8:1 A.M.



Stman, G. M.  
1949

Collection

2 mi. N.; 1 3/4 E.; Fallbrook, San Diego Co., Calif. Elev. 400'

January 29 along Santa Margarita River.

76. ♀ ad. Tyto alba

s.c. coll.

Shot in top of oak on small limbs, 8: A.M.

77. ♀ Turdus migratorius

s.c. coll. 78. ♂ (?) Hylocichla guttata

April 16, 1948 Bluff Lake, San Bernardino (mountains) Co., Calif. Elev. 7700'

79. ♂ imm. Citellus lateralis

187-55-36

January 26. ~~80.~~ 2 mi N; 1 3/4 mi. E. Fallbrook; San Diego Co., Calif. see above

s.c. coll. 80. ? Aphelocoma californica

January 19 Imperial Beach, San Diego Co., Calif. sandy strand, Salicornia, etc.

81. ♀ ad.

s.c. coll.

Shot among sand dunes in short (6") grass + Salicornia

s.c. coll. 82. ♀ imm. ?

Shot in air, companion flew about, tongue deep cad. yellow; fat.

Near Sweetwater Lake; San Diego Co., Calif.

83. ♂ ad. T.S. Oxyechus vociferus

Small pools on open rolling hills; fat

April 3 Silver Strand; San Diego, San Diego Co., Calif.

84. ♀ ad. E. well d.

bushes near beach

April 3 Imperial Beach; San Diego Co., Calif.

85. ♂ ad. Charadrius nivosus

s.c. coll. 86. ♂ ? Charadrius nivosus



istman, G. M.

Collection

1949

April 3

Imperial Beach; San Diego Co., Calif.

s.c. coll. 87. ♂

D

April 16, 1948 Bluff Lake, San Bernardino (mountains) Co., Calif. Elev. 7700'

88. ♀ Citellus lateralis

275-75-43

g. 26. 89. ? (imm.) Citellus lateralis

263-75-36

trapped under Ceonothus, day, bait - "Big Honk" candy Bar

April 6 (E) 4800 block, College Avenue, San Diego, San Diego Co., Calif.

90. ♀ Neotoma

389-198-35-32(N.)

4 Emb. (23 mm.) 2 in @ horn of uterus; N.-facing slope, rather thick brush, near rat hole; 10' from bottom of canyon.

April 14

Vallecito Stage Station, San Diego Co., Calif.

91. ♂ Myotis subulatus melanrhynus

80-40-8-14(N.)

coll. by J. Lee; to P. Krutch (M.N.Z.); id. - A.C. Olson

April 1

Alvarado Canyon; San Diego, San Diego Co., Calif.

92. Carpodacus mexicanus

93. Carpodacus mexicanus

s.c. coll.

Coll. by A.C. Olson



M. CHRISTMAN  
1949

collection

May 15 1 mi. W. + 1 mi. N. (SE. of hill) of Ocotillo, San Diego Co., Cal.  
rocky hillsides of igneous rock and small side canyons,  
which are above general desert floor. Vegetation  
is sparse. Weather—cool windy, rain in Mts. (Lag-  
unas); clouds scattered; very windy, few trapped  
on dry wind wash. Exposure to S.E.

(94. ad. ♀ Perognathus only skull saved  
T.L. - 189 T. - 102 H.F. - 23 E(N) - 9

95. ad. ♂ Perognathus  
T.L. 191 T. 107 H.F. 25 E(N) 9

96. ad. ♂ Perognathus  
no measurements specimen D.O.R.

97. ad. ♀ Peromyscus  
TL - 172 T. 87 HF 18 E(N) 25

Collected SPECIMENS & MAMMOLOGY CLASS S.P.S.Q.

	Imm.	♀	♂
<u>Peromyscus eremicus</u>	5	3*	2
<u>Perognathus longimanus</u>		+	
" <u>formosus</u>		6	3
"			
<u>Dipodomys merriami</u>			(no Emb.)

\* one in lactation  
+ 8 Emb.



RISTMAN  
949-50

Collection

about 13  
OCTOBER? LAKE MERCED, San Francisco Co., Calif.

98. ♂ T.N.E. *[faint]*

found dead on shore, with another too far gone, after chemical treatment of lake with Rotenone.

Nov 1, 1950 Ontario, San Bernardino Co., Calif.

99. ♀ E. (white) developed

found dead (blood about lower neck region)



COLLECTION

April 4 R6E, T1N, S-14;  $1\frac{1}{2}$  mi. N. Joshua tree, San Bernardino Co.,  
[Calif.]

100. ad. ♂ Pipistrellus hesperus 71-28-6-11

Elev. approx. 3000'; shot with .410 (7½ shot) 6:15 P.M., at about  
75' in air, testes  $2\frac{1}{2}$  m.m.; round worms found in inguinal  
region, which were saved.

8 April 2 mi. SW of Bloomington, San Bernardino Co., Calif.

101 ad. ♂ (T.V.E.) Spinus psaltria

T.L. - 95 mm.; shot in white sage with .22 shot in a 16 ga.

4 April R6E, T1N, S-14;  $1\frac{1}{2}$  mi. N. Joshua Tree, San Bernardino  
Co., Calif.; Elev. approx. 3000'; trapped in Rocks, N. wall.

102 ad. ♂ Peromyscus 175-88-19-20

Trap was Museum special got it in the back, still a little in  
it, Stomach very full.

103 ♂ Dipodomys

230-138-38-12

Collected by R.H. Miller & E. Palmer

29 April  $\frac{1}{2}$  mi., E. Turner Ave.; E. of Ontario, San Bernardino Co., Calif.

104 ♀ (a.s.) Dipodomys

258-151-42-15 (from 10)

Captured April 10, 1950, 11:00 P.M., no moon, caught on side of road,  
see Digo. notes.



M. CHRISTMAN  
1950

Collection

105. imm. ♂ Euphagus cyanocephalus BREWERS Blackbird  
May 14 Ontario, San Bernardino Co., Calif. 11:30 A.M. W/ car - was in center of road, we straddled it it made no attempt to escape, we couldn't see it in rear view mirror; later found on front bumper. breast + abd. bare of feathers - skin course. Very heavy parasitism in intestinal tract and some in coelom. - saved in formalin. - tape worms.

106. (imm.) ♂

9 AUGUST 1 mi. W.; 3 1/2 mi N. of Foothill Blvd. on Edwanda Ave.; just 7:45 P.M. E. of Edwanda; San Bernardino Co., Calif. clear, warm, no wind. in area of almost pure stand of white sage was hopping in dirt side of dirt road. tail held at 45° from ground. Stomach - finely ground matter, very small gravel + 2 insect wings (diptera?)

107. (imm.) ♂

9 AUGUST 1 mi. W.; 3 1/2 mi N of Foothill Blvd. on Edwanda Ave.; just E. of Edwanda; 8:15 P.M. San Bernardino Co., Calif. clear, warm, no wind; dusk. shot near dirt road (where it was foraging with another) in a mixed chaparral area; + tall scrub oaks. (ossification spots on dorsal basal region of skull.) Stomach - misc. seeds and a large black ant.

Note: 10 AUG. the age determination on these two sparrows is confusing. Both skulls were similar, the parietal region was steel-gray uniform in color + texture (it was rather soft when probed) while the supro-occipital region was translucent with flakes of white (the above mentioned ossification spots).

December 29, 1950

R6E, Tin, S-14, 1 1/2 mi. N. Joshua Tree, San Bernardino Co., Calif.

108. ♂ (imm?) Salpinctes obsoletus far

109. ad ♀ Sialia currucoides

100

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Figure 1 is a line graph illustrating the percentage of the total sample for various age groups across four different years: 1990, 2000, 2010, and 2020. The y-axis represents the percentage of the total sample, ranging from 0 to 100. The x-axis represents the years. The age groups are categorized as 0-14, 15-24, 25-34, 35-44, 45-54, 55-64, 65-74, and 75+. The graph shows a general trend of decreasing percentages for younger age groups and increasing percentages for older age groups over time.

Age Group	1990	2000	2010	2020
0-14	15.0	14.0	13.0	12.0
15-24	12.0	11.0	10.0	9.0
25-34	10.0	9.0	8.0	7.0
35-44	8.0	7.0	6.0	5.0
45-54	6.0	5.0	4.0	3.0
55-64	4.0	3.0	2.0	1.0
65-74	2.0	3.0	4.0	5.0
75+	1.0	2.0	3.0	4.0

1000

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Year	Population	GDP (USD)	Urbanization (%)	Life expectancy (years)	Healthcare expenditure (% GDP)
1980	100 million	10 billion	60%	70	1.5
1990	120 million	20 billion	65%	72	2.0
2000	150 million	40 billion	70%	75	2.5
2010	180 million	80 billion	75%	78	3.0
2020	200 million	120 billion	80%	80	3.5

100

10. <http://www.ck12.org/Book-Search>

DOI: 10.1002/for

[illegible]

1. *Journal of the American Medical Association*, 1997; 277: 1001-1005.

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Figure 1. A schematic diagram of the experimental design. The subjects were divided into two groups: the control group and the experimental group. The control group received a standard diet and water, while the experimental group received a diet supplemented with 0.5% of the test substance. The subjects were then divided into two subgroups: the control subgroup and the experimental subgroup. The control subgroup received a standard diet and water, while the experimental subgroup received a diet supplemented with 0.5% of the test substance. The subjects were then divided into two subgroups: the control subgroup and the experimental subgroup. The control subgroup received a standard diet and water, while the experimental subgroup received a diet supplemented with 0.5% of the test substance.

stman, G M.

# COLLECTION

- Y 14, 1949 1 1/2 mi. W. Ocotillo, San Diego Co., Calif. Rocky slopes, Borrego  
110. ♀ <sup>18mm.</sup> 6 emb. (Mt.)  
coll. by Joshua A. Lee (\*3) 209-113-24-10
- RIL 1950  
111. ♂ ad (T.V.E)  
194-108-23-11
- AUGUST 9, 1948 Bluff Lake, San Bernardino (mountains) Co., Calif. Elev. 7700'  
112. ♂ Peromyscus 138-62-20  
trapped in store, bait - candy
- AUGUST 13, 1948 Bluff Lake, San Bernardino (mountains) Co., Calif. Elev. 7700'  
113. ♂ T.E. Myotis  
83-38 (40 SKINNED) - 9 - 23
- AUGUST 20, 1948 Bluff Lake, San Bernardino (mountains) Co., Calif. Elev. 7700'  
114. ♂ T.V.E. Myotis 84-30-6 mm.
- AUGUST 26, 1948 Bluff Lake, San Bernardino (mountains) Co., Calif. Elev. 7700'  
115. ♂ Myotis 88-35-7
- AUGUST 13, 1948 Bluff Lake, San Bernardino (Mountains) Co., Calif. Elev. 7700'  
116. ♀? Thomomys 275 (SKIN) - 70 - 38  
Killed by dog in deep grass south side of meadow
- LY 1948 Bluff Lake, San Bernardino (Mountains) Co., Calif. Elev. 7700'  
117. ? imm. Microtus 142-48-22
- April 20, 1945 Ontario, San Bernardino Co., Calif.  
118. ♂ 108-38-22 (V)  
caught in barn.
- DEC. 29, 1950 R6E, T1N, S-14; 1 1/2 mi. N. Joshua Tree, San Bernardino Co., Calif.  
119. ♂ ad.



W. Christman  
1950

Collection

- Oct. 6 Strawberry Canyon, Alameda Co., Calif.  
♀ 5 Emb. 20 mm  
120. Peromyscus maniculatus gambeli 154-66-19-18<sup>(N)</sup> wt. 27g  
Collected by Dr. Seth B. Benson and S. O. Landry  
Oct. 17 3 mi. NNE Vallejo, 120 ft., Solano Co., Calif., Coll. Ward C. Russell  
121. ♂ Euphagus cyanocephalus 73.4 gm  
122. ♀ Euphagus cyanocephalus 55 ~~13~~ gm

October 24, 1950

123. ♂ im. Agelaius phoeniceus 64.6 gm  
124. ♀ im. Agelaius 46.8 gm  
125. ♀ im. Agelaius 39.5 gm

November 19, 1950

White Gulch, Tomales Point, 8 mi. NW. Inverness, Marin Co., Calif.

126. ♂ ad. Peromyscus 154-76-21-17 Testes 6x11 24.7 gm  
127. ♀ Peromyscus maniculatus 186-92-22-17 45.3 gm  
128. ♀ Reithrodontomys megalotis 129-67-11-13 11.7 gm

December 27, 1950

129. 4 mi. (6 km) NNW Edwanda, San Bernardino Co., Calif.  
♂ ad. Peromyscus maniculatus

November 29, 1950

Mouth of Strawberry Canyon, Berkeley, Alameda Co., Calif. 400' elev.

130. ♂ imm. Passerella iliaca  
131. ♂ imm. Melospiza melodia  
132. ♂ imm. Pipilo fuscus

Dec. 3, 1950

Mouth of Strawberry Canyon, Berkeley, Alameda Co., Calif. 400' elev.

133. ♂ ad. Zonotrichia coronata (T.S.)  
134. ♂ ad. Zonotrichia coronata (skull completely oss.) T.S.

December 10, 1950 (all deviscerated, no wts.)

Gray Lodge State Waterfowl Refuge, 3 mi. NW Pennington, Butte Co. Calif. elev. 65'

135. ♂ Mus musculus 149-70-18-12  
136. ♂ Mus musculus 125-57-15-14  
137. ♂ Mus musculus 162-75-17-12  
138. ♀ Peromyscus maniculatus



CatalogueDecember 29, 1950

REG, TIN, 5-14, 1 1/2 mi. N. Joshua Tree, San Bernardino Co., Calif.

139. ♂ ad. T.E. Dipodomys ~~modicus~~ 243-147-40-15  
 140. ♂ T. small Dipodomys ~~modicus~~ 220-134-36-12  
 141. ♂ T.E. Neotoma ~~leucurus~~ skull damaged 185-131-29-30

December 31, 1950~~141.~~ Hoards Canyon, 1/2 mi. W. Cucamonga wash, N. Upland, San Bernardino Co., Calif.

142. ♂ T. Peromyscus ~~truei~~ 186-101-21-19

March 7, 1951

South Pasture, Hastings Nat. His. Reservation, Monterey Co., Calif.

143. ♀ Zenaidura macroura ; died while being banded; Wt. 29.9 gm.  
 Took some chiggers from inside of ears; no parasites found in stomach<sup>to</sup> - caeca  
 lice collected from head - lores, above auriculars.

~~144~~March 8, 1951

144. ♂ Peromyscus maniculatus wt. 23.5 gm. 193-101-21-18

145

146

147

148

March 9, 1951

149

150

151

152

153



March 7, 1951

Hastings Reservation

143.

1 vial

March 8, 1951 Ditch between bridge + museum

144. ♂ Peromyscus maniculatus

Chiggers from Ears, vent region

2 Vials

145 ♂ Peromyscus ~~maniculatus~~ <sup>truei boylii</sup> wt. 23.5 gm.

193 - 101 - 21 - 18(N)

Myobia  
Chiggers on head

1 Vial

146. ♀ Peromyscus boylii

wt. 23.6 gm. 177-95-21-20(N)

Myobia from head; lice

2 Vials

147. ♂ Peromyscus boylii

(tail cut)  
wt. 22.9 gm. 148-63-22-19(N)

Mites

1 Vial

148. ♂ Peromyscus maniculatus  
imm.

wt. 14.9 gm. 137-58-18-16(N)

chiggers from ear; hair lice

2 Vials

March 9, 1951

149 ♂ imm Peromyscus boylii

wt. 10.5 gm. 144-75-21-18(N)

lice in ear; mite on body, mite on penis

3 vials

150 ♂ Peromyscus boylii

(tail cut)  
wt. 21.6 gm. 145-59-20-19(N)

UB Flea, chiggers, mites

3 vials

151 ♀ Peromyscus boylii

wt. 25.0 gm. 182-97-21-19(N)

UB Myobia, mite, flea.

3 vials

152 ♂ Microtus californicus

wt. 46.8 gm. 163-50-22-15(N).

Fleas, hair lice, chiggers, Mites

4 Vials

153 ♀ Peromyscus californicus

wt. 38.4, 248-144-26-25(N)

1 hair <sup>loose</sup> mite; 2 small red mites from genital region, chiggers (2) from ear.

Roundworms in stomach

3 Vials



## Hastings Reservation, Monterey Co., Calif.

March 9, 1951

154 ♀ Mus musculus wt. 16.1 gm. 153-76-17-13(N)  
Upper Barn Myobia + mites 2 vials

155 ♂ Mus musculus wt. 14.3 gm. 148-73-17-12(N)  
Upper Barn Myobia from Cecum 1 vial

March 10, 1951

156 ♀ Mus musculus 4 Emb (15mm) wt. 19.1 gm. 140-67-17-12(N)  
Myobia (head & back), tick, mites 3 vials

157 ♀ Mus musculus 7 Emb. (11mm) wt. 18.5 gm 153-78-18-13(N)  
Myobia, Mites, ear chigger 3 vials

March 11, 1951

158 ♂ imm. Thomomys bottae wt. 96.0 gm 186-63-29-7(N)  
Nause 2 vials

159 ♀ 7 Emb. (30 mm) Thomomys bottae wt. 152.9 gm. 194-52-27-7(N)  
Nause; roundworm ( ) from caecum

160 ♀ Peromyscus boylii wt. 35.2 gm 196-108-21-19(N)  
Bumhouse

161 ♂ Mus musculus wt. 17.0 gm. 167-84-17-12(N)  
Upper Barn

March 12

162 ♂ imm. Peromyscus boylii wt. 15.1 gm. 156-83-21-18(N)  
Ditch between bridges. Myobia

163 ♂ imm. Peromyscus boylii wt. 12.5 gm. 165-88-23-20(N)  
Upper barn

164 ♀ imm. Thomomys bottae wt. 78.2 gm. 183-55-26-6(N)  
Nause

165 ♀ Peromyscus californicus wt. 37.8 gm 223-124-25-22(N)  
Upper Barn; roundworm in stomach, flea, mite, ear chigger

166 ♂ Mus musculus wt. 17.2 gm 158-81-18-12(N)  
Upper barn, Myobia, ear chigger

167 ♀ Mus musculus wt. 14.0 gm (upper barn Myobia, louse)



man

March 9, 1951

Hastings Reservation

154 ♀ Mus musculus wt. 16.1 gm. 153-76-17-13(N).  
UB Myobia + mites 2 vials

155 ♂ Mus musculus wt. 14.3 gm. 148-73-17-12(N)  
UB Myobia on cranium - 1 vial

March 10, 1951

156 ♀ Mus musculus 4 Emb (15mm) wt. 19.1 gm. 140-67-17-12(N)  
Myobia (head + back), tick, mites 3 vials

157 ♀ Mus musculus 7 Emb. (11mm) wt. 18.5 gm 153-78-18-13(N)  
Myobia; Mites; ear chigger 3 vials

158 ♂ imm. Thomomys bottae wt. 96.9 gm 186-63-29-7(N)  
House, Mites, lice 2 vials

159 ♀ Thomomys bottae 7 Emb (30mm) wt. 152.9 gm. 194-52-27-7(N)  
House, Roundworms from caecum, Flea, lice 3 vials

160 ♀ Peromyscus boylii wt. 35.2 gm. 196-108-21-19(N)  
Bunkhouse, Tick on genitalia, Mite, Myobia 3 vials

161 ♂ MUS wt. 17.0 gm. 167-84-17-12(N)  
Upper Barn

March 12

162 ♂ imm. Peromyscus boylii wt. 15.1 gm. 156-83-21-18(N)  
Ditch between bridges, Myobia, Mites 2 vials

163 ♂ imm. Peromyscus boylii wt. 12.5 gm. 165-88-23-20(N)  
Upper barn Mites, ear chiggers. 3 vials

164 ♀ imm. Thomomys bottae wt. 78.2 gm. 183-55-26-6(N)  
House, Lice, Mite 2 vials

165 ♀ Peromyscus californicus wt. 37.8 gm. 223-124-25-22(N)  
Upper barn: roundworm in stomach; Flea, Mite, ear chigger

10. 10. 19

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Notman, J. W. Hastings Reservation, Monterey Co., California

March 13, 1951

168. ♀ Mus musculus wt. 14.8 gm 140-79-16-12 (N)  
169. ♂ Mus " wt. 11.5 gms. 143-72-18-12 (N)  
170 ♀ Neotoma fuscipes wt. 199.2 gms. 385-192-38-29 (N)

March 14, 1951

- 171 ♂ Thomomys bottae wt. 147.8 gm. 196-58-26-8 (N)  
172 ♂ imm. Peromyscus boylii wt. 12.2 gm 162-84-22-19 (N)

March 15, 1951

- 173  
174  
175  
176

March 16, 1951

- 177 ♂ Peromyscus boylii wt. 17.1 gm. 169-95-21-19 (N)  
178 ♀ Peromyscus boylii wt. 20.9 gms 178-97-22-19 (N)  
179 ♀ imm. Thomomys bottae wt. 70.0 gm. 168-44-27-6 (N)

March 20, 1951

- 180 ad. ♂ Thomomys bottae wt. 156.6 gms. 224-62-28-8 (N)  
181 ♂ imm. Thomomys bottae wt. 109.5 gms. 211-65-31-7 (N) SKIN\*  
182 ♀ Mus musculus wt. 19.7 gm. 135-55 (cur)-18-18 (N)  
183 ♂ imm. Mus " wt. 10.5 gms. 141-69-18-  
184 ♂ imm. Mus " wt. 16.6 gms. 137-70-16-12 (N)  
185 ♂ imm. Mus " wt. 7.4 gms 115-57-15-12 (N)

March 21, 1951

- 186 ♂ Peromyscus maniculatus wt. 18.8 gm. 147-66-19-16  
187 ♂ Mus musculus wt. 16 gms 143-77-18-12  
188 ad ♀ Thomomys bottae wt. 133.5 gms. 202-52-24-7  
189 ♀ Mus musculus wt. 19.2 gms 179-87-17-13  
190 ♂ ad. Peromyscus maniculatus wt. 15.3 gms. 143-71-20-14  
191 ♂ Mus musculus wt. 9.3 gms 128-68-17-12

March 22, 1951

- 192 ♂ Peromyscus maniculatus wt. 16.1 gms. 146-66-20-17\*  
193 imm ♂ Mus musculus wt. 6.6 gms. 115-59-16-11  
194 imm ♂ Mus musculus wt. 7.7 gms. 116-60-17-11  
195 ♀ imm " wt. 7.9 gm 129-63-16-11

\* The skins prepared here are of the flat, file away type.



Christman

March 12

Hastings Reservation

- 166 ♂ Mus musculus Wt. 17.2 gm. 158-81-18-12(N)  
upper barn, Myobia, ear louse 2 vials
- 167 ♀ Mus musculus Wt. 14.0 gm.  
upper barn - Myobia, louse 2 vials

March 13

- 168 ♀ Mus musculus Wt. 14.8 gm. 140-79-16-12(N)  
randworms from caecum, mites, lice, Myobia upper barn
- 169 ♂ Mus Wt. 11.5 gms. 143-72-18-12(N)

upper barn

- 170 ♀ Neotoma Wt. 199.2 gm 385-192-38-29(N)  
School; 1 flea.

Mar. 14

- 171 ♂ Thomomys bottae Wt. 147.8 gm. 196-58-26-8(N)  
N. of house,

- 172 ♂ imm Peromyscus, Wt. 12.2 gm. 162-84-22-19(N)  
~~upper barn~~ Homestead House.

Mar. 15

173. ♀ Citellus Wt. 15.5 gm. 420-161-52-25(N)  
Upper barn

174. ♂ imm. Peromyscus maniculatus Wt. 20.4 gm 138-64-19-17(N)  
house, snaptrap, small red mites, 1 louse, 4 Myobia, 1 ear chigger
175. ♀ Thomomys bottae 195-65-26-9  
House, trichuris, tapeworms, flea, mites, lice

- 176 ♂ Zonotrichia coronata, 50-118212. Wt. 30. gms.

Killed by Hawk at upper barn

- 177 ♂ Peromyscus Wt. 17.1 gm. 169-95-21-19(N)  
Old barn, Mites(5) from rump.

Mar. 16



## Hastings Reservation, Monterey Co., Calif.

- 196 imm ♀ Mus musculus Wt. 9.1 gms 131-64-17-11  
 197 ad ♀ Peromyscus maniculatus Wt 18.8 gm. 150-67-21-16

March 23, 1951

- 198 ad. ♂ Mus musculus Wt. 16.5 gm. 150-73-16-12  
 199 ad. ♀ Microtus californicus Wt. 47.2 gm 167-52-21-15  
 200 ♀ Peromyscus maniculatus Wt. 15.5 gm. 142-64-18-16

March 24, 1951

- 201 ad ♀ Microtus californicus Wt. 22.3 gm 158-43-20-13  
 202 ♀ Citellus beecheyi Wt. 575 ± gms 417-153-50-26  
 203 ♀ Citellus beecheyi Wt. 575 ± gms. 418-157-53-26  
 204 ♀ Citellus beecheyi Wt. 475 gms 408-141-49-25  
 205 ad ♂ Peromyscus maniculatus Wt. 15.2 gm no tail 19-15

March 25, 1951

- 206 ad. ♂ Citellus beecheyi Wt. 575 ± gm 417-148-52-28  
 207 imm. ♀ Zonotrichia coronata Wt. 29.5 gms 47118105  
 208 ad. ♂ Mus musculus  
 209 ad. ♀ Citellus beecheyi Wt. 500 ± gms. 430-158-50-26  
 210 imm ♂ Mus musculus Wt. 5.6 gms 109-50-15-10  
 211 imm ♂ Mus musculus Wt. 5.8 gm 114-53-15-11  
 212 ad. ♂ Peromyscus maniculatus Wt. 13.4 gm 146-68-19-16 \*

March 26, 1951

- 213 ♀ Peromyscus truei Wt. 22.7 gm 197-91-21-22 \*  
 214 ♀ Peromyscus truei Wt. 18.7 gm 184-92-22-23 \*  
 215 ♂ Peromyscus truei Wt. 20.0 gm 192-97-22-23  
 216 ad. ♀ Microtus californicus Wt. 20.1 gm 166-45-20-15 \*  
 217 imm ♀ Peromyscus maniculatus Wt. 15.7 gm 144-66-19-18 \*  
 218 ♂ Sceloporus occidentalis Wt. 14.7 gm. 178-108 (tail-vent)  
 219 ♂ Sceloporus occidentalis Wt. 13.7 gm 75 (head-vent) tail off

Mar. 27, 1951

- 220 ad. ♂ Citellus beecheyi Wt. 615 ± gm 442-171-55-25  
 221 ♀ Mus musculus Wt. 14.7 gm 143-76-17-12  
 222 ad ♀ Microtus californicus Wt. 38.6 gm 149-42-20-13  
 223 ad ♂ Thomomys bottae Wt. 152.1 gm. 212-71-30-7



Catalogue

Hastings Reservation, Monterey Co., Calif. clv.

March 27, 1951224 ♀ Thomomys bottae Wt. 112.8 gm 202-67-29-8 \*March 28, 1951225 imm ♀ Peromyscus maniculatus Wt. 15.3 gm 141-60-19-16226 imm ♂ Peromyscus boylii Wt. 11.3 gm 148-83-21-17227 ad. ♂ Peromyscus maniculatus Wt. 16.6 gm 151-65-20-16228 ad. ♂ Peromyscus maniculatus Wt. 14.8 gm 135-59-19-16 \*  
4(10mm) Embs.229 ad ♀ Peromyscus maniculatus Wt. 20.0 gm. 158-70-18-17230. ad. ♂ Citellus beecheyi Wt. 775± gm. 458-165-55-28231. ♀ Citellus beecheyi Wt. 600 gm. 418-165-51-25March 29, 1951232. ♀ Mus musculus Wt. 12.8 gm 152-69-15-12233 ad ♀ Peromyscus maniculatus Wt. 23.6 gm 164-70-20-18234 ad. ♀ Citellus beecheyi Wt. 537.9 gm 427-163-58-26235 ♀ Citellus beecheyi Wt. 528.9 gm 442-182-54-25236 ♀ Mus musculus Wt. 12.7 gm 160-78-15-13March 30, 1951237 ♀ Peromyscus boylii Wt. 16.3 gm 180-92-21-20238 ♂ Mus musculus Wt. 10.0 gm 134-66-16-12239 ♂ Mus musculus Wt. 10.0 gms 132-62-17-11 (2)240 ♀ Perognathus californicus Wt. 19.1 gm 196-111-23-12241 ad. ♀ Thomomys bottae Wt. 102.7 gm 193-62-26-7March 31, 1951242 ad. ♂ Peromyscus californicus Wt. 40.5 gm. 240-127-26-25 \*243 ad. ♂ Peromyscus truei Wt. 25.3 gm 198-108-22-25244 ad. ♂ Citellus beecheyi Wt. 806.2 gm 465-185-57-25245 ♀ Citellus beecheyi Wt. 700 gm 431-153-54-25246 imm ♂ Zonotrichia coronata Wt. 30.9 gm (50 118 117)April 1, 1951247 imm ♂ Peromyscus maniculatus Wt. 16.1 gm 154-74-19-17248 ad ♀ <sup>5</sup>(10mm) Embs Peromyscus maniculatus Wt. 25.3 gm 168-73-19-19 \*249 ad ♀ Thomomys bottae Wt. 115.6 gm 204-55-27-7 \*  
6 (13mm) Embs.



catalogueNastings Reservation, Monterey Co., Calif.April 2, 1951

- 250 ad. ♀ Peromyscus maniculatus wt. 20.7 gm 147-69-19-16  
 251 ad ♀ Peromyscus maniculatus wt. 19.7 gm 150-65-19-16 \*  
 252 imm. ♂ Peromyscus maniculatus wt. 15.6 gm 150-67-19-16 \*  
 253 imm. ♂ Peromyscus maniculatus wt. 16.3 gm 155-67-19-17  
 254 ♂ Citellus beecheyi wt. 829.7 gm 448-155-56-25

April 3, 1951

255. imm ♂ Zonotrichia coronata wt. 22.4 gm (50 (18100)  
 256. ad. ♂ Peromyscus truei wt. 18.9 gm 178-90-22-24 \*  
 257. ♀ Thomomys bottae wt. 163.9 gm 214-58-22-8 \*

April 4, 1951

258. ♀ Peromyscus boylii wt. 18.3 gm. 176-92-21-19 \*  
 259. ♂ Thomomys bottae wt. 150.2 gm 237-73-28-7 \*

April 5, 1951

260. ♀ Peromyscus truei wt. 26.3 gm 191-98-23-23  
 261. ♀ Peromyscus truei wt. 23.1 gm. 186-96-23-24  
 262 imm ♂ Peromyscus truei wt. 13.9 gm 158-76-22-22  
 263. imm ♂ Pipilo fuscus wt. 51.5 gm \*  
 264. ad ♀ Triturus torosus wt. 12.5 gm preserved  
 265. imm ♂ Peromyscus maniculatus wt. 5.9 110-48-17-11  
 266. ad ♂ Peromyscus boylii wt. 21.4 gm 193-100-21-18  
 267 ♀ Peromyscus boylii wt. 18.2 gm 177-19-21-20  
 268. ad ♂ Peromyscus maniculatus wt. 24.4 gm 200-104-21-18 \*  
 269. imm ♂ Peromyscus maniculatus wt. 13.8 gm 139-65-19-16

April 6, 1951

270. s-ad ♂ Peromyscus maniculatus wt. 15.1 gm 151-65-20-16  
 271. s-ad ♂ Peromyscus maniculatus wt. 16.5 gm <sup>5</sup>185-71-20-18  
 272. imm ♂ Peromyscus maniculatus wt. 5.8 gm 108-46-18-10  
 273 ad. ♂ Thomomys bottae wt. 173.0 gm. 229-59-30-9  
 274 ♀ Citellus beecheyi wt. 649.5 gm 420-159-55-26

April 7, 1951

275. imm. ♀ Peromyscus maniculatus wt. 4.9 gm 108-50-18-12  
 276 ad ♂ Peromyscus boylii wt. 18.1 gm 176-91-20-19



Hastings Reservation, Monterey Co., Calif.April 7, 1951 (cont)

276. ad. ♀ Peromyscus maniculatus wt. 25.3 gm 194-104-22-19 <sup>off?</sup>  
 278 ♂ Thomomys bottae wt. 148.3 gm 234-72-33-8  
 279 ♂ Peromyscus boylii wt. 20.5 gm 167-89-21-18 <sup>off?</sup>  
 280. ad ♀ 2 (25 mm) Emb. Peromyscus boylii wt. 27.2 gm 187-97-21-18

April 8, 1951

281. s-ad. ♂ Thomomys bottae wt. 102.5 gm. 192-50-33-7

April 9, 1951

- 282 ad ♂ Peromyscus maniculatus wt. 17.6 gm 143-63-18-17  
 283 ad ♂ Peromyscus truei wt. 25.5 gm 203-107-22-24  
 284 ad ♀ Peromyscus truei wt. 33.1 gm 204-106-20-24  
 285 ad ♂ Peromyscus truei wt. 26.7 gm. 186-97-24-23  
 286 ad ♂ Peromyscus truei wt. 24.8 gm 181-91-23-23  
 287 ad ♂ Peromyscus truei wt. 23.4 gm. 181-83-22-22 <sup>off</sup>  
 288 ♂ Thomomys bottae wt. 129.4 gm 212-60-28-7  
 289 ♀ Peromyscus boylii wt. 19.0 gm 180-97-21-19  
 290 ♂ Citellus beecheyi wt. 691.5 gm. 448-176-58-26

Apr. 13, 1951

- 291 ♀ Peromyscus boylii, wt. 17.5 gm. 172-89-22-22  
 292. ♂ Sceloporus occidentalis wt. 10.5 gm T.L. 177, t-anus 108  
 293 ad. ♂ Microtus californicus wt. 55.6 gm 179-54-22-15  
 294. ad. ♀ Peromyscus truei wt. 26.3 gm 186-91-21-22  
 295 ♂ Mus musculus wt. 10.9 gm 140-68-17-14

Apr. 14, 1951

- 296 juv. ♂ Peromyscus maniculatus wt. 10.5 gm 129-56-19-15  
 297 imm ♂ Peromyscus maniculatus wt. 6.2 gm 108-43-17-11  
 298 ad ♂ Peromyscus boylii wt. 24.5 gm 178-89-22-18

Apr. 15, 1951

- 299 imm ♀ Peromyscus boylii wt. 11.8 gm 142-68-21-16  
 300 ad ♀ Peromyscus maniculatus wt. 12.4 gm 143-62-19-17  
 301 ♀ Neotoma fuscipes wt. 128.9 gm 325-155-37-29  
 302 ad ♂ Neotoma fuscipes wt. 237.8 gm 395-188-38-30  
 303. ad ♀ Citellus beecheyi wt. 527.4 gm 413-153-54-26



Hastings Reservation, Monterey Co., Calif.
Apr. 16, 1951

- 304 ♀ Microtus californicus wt. 42.6 gm 165-48-21-14  
 305 ♂ Thomomys bottae wt. 152.8 gm 223-65-28-8

Apr. 17, 1951

- 306 ♀ Peromyscus maniculatus wt. 19.8 gm. 154-70-20-17  
 307 imm. Sceloporus occidentalis released  
 308 ad ♂ Sceloporus occidentalis wt. 14.5 gm  
 309 s-ad ♀ Peromyscus maniculatus wt. 14.3 gm. 139-64-20-17  
 310 ♀ Lophortyx californica #39 430834

Apr. 18, 1951

- 311 imm ♂ Citellus beecheyi wt. 94.1 gm 228-84-41-20  
 312 ad ♂ Peromyscus boylii wt. 19.4 gm. 183-97-22-19 5Kin  
 313 s-ad ♂ Peromyscus maniculatus wt. 15.8 gm 146-65-20-18  
 314 ♀ Microtus californicus wt. 67.4 gm 186-49-22-17  
 315 ♀ Citellus beecheyi wt. 107.5 gm. 435-184-55-25  
 316 ♂ Microtus californicus wt. 57.2 gm. 175-52-21-17

Apr. 19, 1951

- 317 imm ♀ Citellus beecheyi wt. 133.4 gm 268-106-44-21  
 318 ♂ Microtus californicus wt. 39.7 gm 160-48-22-15  
 319 ad ♂ Peromyscus boylii wt. 22.4 gm 164-81-21-19 \*  
 320 imm ♂ Citellus beecheyi wt. 129.0 gm. 269-108-48-21 \*  
 321 ad ♂ Perognathus californicus wt. 24.7 gm 192-104-24-13

Apr. 23, 1951

- 323 s-ad ♀ Peromyscus boylii wt. 21.3 gm. 179-104-20-18  
 324 s-ad ♂ Peromyscus boylii wt. 18.1 gm 174-90-21-18  
 325 ad ♂ Thomomys bottae wt. 174.1 gm. 232-67-32-7  
 326 ad ♀ Citellus beecheyi wt. 737.5 gm 420-157-54-26

Apr. 24, 1951

- 327 ad ♀ Microtus californicus wt. 49.8 gm 172-51-20-14  
 328 imm ♀ Microtus californicus wt. 23.8 gm 135-38-21-14  
 329 ♀ Peromyscus truei wt. 21.5 gm 178-93-23-23  
 330 s-ad ♂ Thomomys bottae wt. 119.0 gm 208-59-30-7 \*  
 331 ad ♀ Microtus californicus wt. 41.0 gm 152-45-21-14  
 332 imm ♀ Thomomys bottae wt. 79.0 gm 185-52-25-6



## Catalogue

Hastings Reservation, Monterey Co., Calif.Apr. 25, 1951

- 333 ♂ Peromyscus maniculatus wt. 15.7 gm 144-67-21-15  
 334 ad. ♂ Microtus californicus wt. 42.5 gm 169-52-22-14  
 335 imm ♀ Citellus beecheyi wt. 148.9 gm 285-108-46-20  
 336 ♀ Citellus beecheyi wt. 650. gm 422-154-53-23

Apr. 26, 1951

- 337 imm ♀ Citellus beecheyi wt. 159.4 gm 290-115-48-20  
 338 ad ♀ Neotoma fuscipes wt. 170.6 gm 298-113-40-30<sup>off</sup>  
 339 imm ♀ Sylvilagus audubonii wt. 354.2 gm 280-48-67-57<sup>\*</sup>(U)  
 340 imm. ♂ Citellus beecheyi wt. 111.4 gm 255-97-48-22

Apr. 27, 1951

- 341 ad ♂ Peromyscus maniculatus wt. 18.3 gm 155-67-18-15  
 342 ad ♀ Peromyscus maniculatus wt. 20.9 gm 165-72-19-16  
 343 Gerrhonotus multi-carinatus Released (ticks)  
 344 Sceloporus occidentalis Released (ticks)  
 345 ♂ Microtus californicus wt. 21.4 gm 123-36-21-13  
 346 ad ♀ Microtus californicus wt. 54.6 gm 181-54-21-16

Apr. 28, 1951

- 347 imm ♀ Citellus beecheyi wt. 156.3 gm 292-124-47-22

Apr. 29, 1951

- 348 ♀ Microtus wt. 19.3 gm 123-35-20-12  
 349 s-ad ♂ " wt. 32.6 gm 155-53-22-15  
 350. imm ♂ " wt. 10.3 gm 102-28-18-10  
 351. ♂ Peromyscus californicus wt. 30.6 gm 214-114-26-24

Apr. 30, 1951

- 352 imm ♀ Mus wt. 8.7 gm 125-61-15-11  
 353. ad ♀ Mus wt. 11.5 gm 135-64-16-12  
 354. ad ♀ " wt. 21.6 gm 174-86-18-12  
 355. ad ♂ " wt. 19.3 gm 170-84-17-13  
 356 s-ad ♂ Peromyscus truei wt. 17.4 gm 173-94-21-22  
 357 imm. Pica nuttallii Preserved.

May 1, 1951

- 358 ad. ♀ Peromyscus californicus wt. 42.1 gm 252-143-27-25  
 359 ad ♂ Thomomys wt. 62.5 gm 238-78-30-6  
 360 imm ♀ wt. 46.7 gm 160-58-26-5



Hastings Reservation, Monterey Co., Calif.May 2, 1951

361. ad ♂ Thomomys bottae wt. 139.0 gm. 215-66-28-6  
 362. s-ad ♂ Peromyscus truei wt. 21.7 gm. 190-102-22-22  
 363. imm ♀ Thomomys bottae wt. 101.4 gm. 178-58-26-7  
 364. imm. ♀ Thomomys bottae wt. 97.1 gm 199-62-26-6

May 3, 1951

365. s-ad. ♀ Thomomys bottae wt. 91.8 gm 186-64-27-7  
 366 s-ad ♀ Thomomys bottae wt. 81.0 gm 186-60-24-7  
 367 s-ad ♀ Thomomys bottae wt. 101.9 gm 202-57-27-7  
 368 s-ad. ♀ Thomomys bottae wt. 103.0 gm. 207-68-26  
 369. imm. Microtus californicus wt. 8.1 gm 78-18-13-3(C) Preserved

May 4, 1951

370. ad. ♀ Thomomys bottae wt. 140.7 gm. 213-65-26-6

May 5, 1951

371. imm ♂ Mus musculus wt. 7.3 gm 122-59-15-18  
 372 ♀ Peromyscus californicus wt. 30.6 gm 215-119-25-25

May 6, 1951

373. ♀ Scapanus latimanus wt. 62.5 gm 157-56-20  
 374. ♀ Thomomys bottae wt. 111.9 gm 195-57-27-7

May 7, 1951

375. s-ad. ♂ Thomomys bottae wt. 96.3 gm 189-58-26-6  
 376. imm. ♀ Thomomys bottae wt. 70.5 gm 177-61-25-6  
 377. s-ad ♀ Thomomys bottae wt. 94.1 gm 183-57-28-7  
 378 ad. ♀ Thomomys bottae wt. 123.4 gm 189-60-26-7  
 379. ♀ Thomomys bottae wt. 69.8 gm 177-60-25-6

May 8, 1951

380. ad. ♂ Thomomys bottae wt. 135.2 gm. 218-69-38-7  
 381. s-ad ♀ Thomomys bottae wt. 84.7 gm 186-54-28-7  
 382. ♀ Thomomys bottae wt. 130.0 gm. 214-60-30-7  
 383 imm ♀ Thomomys bottae wt. 64.3 gm 169-57-27-6  
 384. ♀ Thomomys bottae wt. 103.0 gm. 194-49-25-6

May 9, 1951

- 385 ad. ♂ Thomomys bottae wt. 139.5 gm 214-67-30-7  
 386 ad. ♂ Thomomys bottae wt. 126.8 gm 218-74-30-7



Hastings Reservation, Monterey Co., Calif.May 9, 1951

387. ♀ Thomomys bottae wt. 76.3 gm. 181-55-26-5  
 388. ♀ Peromyscus maniculatus wt. 20.0 gm 149-60-19-16

May 10, 1951

- 389 ♀ Thomomys bottae wt. 115.3 gm. 104-66-27-7  
 390 ad. ♂ Thomomys bottae wt. 150.0 gm. 225-63-28-8

May 11, 1951

- 391 ad ♀ Thomomys bottae wt. 96.9 gm 195-51-25-7  
 392 ad ♂ Thomomys bottae wt. 171.2 gm 225-60-28-8  
 393 s-ad. ♂ Thomomys bottae wt. 95.4 gm. 103-63-27-6  
 394 s-ad. ♂ Peromyscus maniculatus wt. 15.9 gm 147-65-19-16  
 395 ad. ♂ Peromyscus californicus wt. 29.5 gm. 237-136-25-23

May 12, 1951

396. ad. ♂ Thomomys bottae wt. 133.8 gm. 204-55-27-7  
 397. s-ad ♀ Thomomys bottae wt. 105.5 gm. 190-54-27-6  
 398. ad. ♂ Thomomys bottae wt. 118.5 gm. 205-59-30-7  
 399. ad. ♂ Thomomys bottae wt. 134.5 gm 218-70-28-7

May 13, 1951

400. ad. ♀ Thomomys bottae wt. 119.2 gm. 201-68-29-7  
 401. ad. ♂ Thomomys bottae wt. 152.3 gm. 223-70-29-7

May 14, 1951

- 402 s-ad ♀ Thomomys bottae wt. 109.2 gm 182-56-27-7  
 403. ♂ Thomomys bottae wt. 58.8 gm 163-47-26-6 \*

May 15, 1951

404. ad ♂ Thomomys bottae wt. 159.8 gm. 227-65-33-8  
 405. s-ad ♀ Thomomys bottae wt. 96.8 gms. 183-55-27-7  
 406. ad ♂ Thomomys bottae wt. 175.8 gms 212-59-30-8  
 407. s-ad. ♀ Thomomys bottae wt. 103.1 gms. 200-59-27-7

May 16, 1951

408. imm ♂ Thomomys bottae wt. 79.1 gm. 191-56-27-7  
 409. s-ad. ♂ Thomomys bottae wt. 93.2 gms. 193-56-30-7  
 410. s-ad. ♀ Thomomys bottae wt. 88.5 gms 193-57-27-7  
 411. s-ad. ♀ Thomomys bottae wt. 76.6 gms 183-56-25-6  
 412 s-ad ♂ Peromyscus truei wt. 19.4 gms. 181-95-22-22



Hastings Reservation, Monterey Co., Calif.

- 413 s-ad ♀ Peromyscus boylii wt. 22.3 gm. 178-92-21-21  
 414 s-ad ♀ Thomomys bottae wt. 98.5 gm 212-63-28-7  
 415 s-ad ♂ Peromyscus californicus wt. 31.0 gm. 235-130-25-25

May 17, 1951

- 416 s-ad ♀ Thomomys bottae wt. 93.8 gms. 189-~~52~~<sup>52</sup>-25-8  
 417 s-ad ♀ " wt. 96.0 gms 191-56-27-7  
 418 s-ad ♂ " wt. 110.8 gms 204-65-27-7  
 419 ♂ Microtus californicus wt. 57.0 gms 190-56-22-14

May 18, 1951

- 420 ad ♂ Thomomys bottae wt. 175.4 gms. 222-68-31-7  
 421 ♀ " " wt. 99.7 gms 203-64-26-6  
 422 ad ♂ Lynx rufus 810-155-160-65

May 19, 1951

- 423 imm ♀ Thomomys bottae wt. 72.6 gms 183-58-25-6  
 424 ad Thomomys bottae wt. 137.0 gms 219-65-31-7

May 20, 1951

- 425 ♀ Microtus californicus wt. 44.0 gms 168-50-21-17  
 426 ad ♀ Microtus californicus wt. 64.2 gms 169-50-22-17

May 21, 1951

- 427 ad ♂ Microtus californicus wt. 58.3 gms. 179-58-22-17  
 428 s-ad ♀ " " wt. 35.0 gms 152-58-20-16  
 429 imm. ♀ " " wt. 10.0 gm. 123-36-20-14  
 430 ♀ Citellus beecheyi wt. 410.0 gm. 406-64-56-26

May 22, 1951

- 431 s-ad ♂ Peromyscus maniculatus wt. 15.7 gms. 158-77-20-17 \*  
 432 ad ♂ Sceloporus occidentalis wt. 15.3 gm T.L. 170; t-v. 91  
 433 ♂ Citellus beecheyi wt. 521.3 gm 433-169-56-27  
 434 ♂ Eutamias merriami Released

May 23, 1951

- 435 imm Sylvilagus audubonii Released  
 436 s-ad Sylvilagus audubonii Released  
 437 ♀ Bubo boreus wt. 121.3 gm  
 438 imm. ♀ Citellus wt. 394.7 gm 390-196-52-25



Hastings Reservation, Monterey Co., Calif.

May 23, 1951

439.	imm ♀	<u>Citellus beecheyi</u>	wt. 379.5 gm 377-169-52-24
440.	imm ♀	<u>Citellus beecheyi</u>	wt. 311.5 gm. 363-145-52-24
441.	imm ♀	<u>Citellus beecheyi</u>	wt. 343.3 gm 383-144-51-25
442.	imm. ♀	<u>Citellus beecheyi</u>	wt. 320.0 gm 363-152-54-25
443	imm. ♀	<u>Citellus beecheyi</u>	wt. 316.3 gm 372-152-55-23
444	imm. ♂	<u>Citellus beecheyi</u>	wt. 407.5 gm 403-156-57-24

May 24, 1951

445	♀	<u>Cnemidophorus tesselatus</u>	wt. 23.2 gm
446.	imm ♀	<u>Thomomys bottae</u>	wt. 72.6 gm. 184-58-26-7
447.		<u>Sylvilagus audubonii</u>	Released
448.	imm ♀	<u>Microtus californicus</u>	wt. 27.6 gm 134-44-22-15
449	imm ♀	<u>Sylvilagus audubonii</u>	wt. 587.0 gm 347-45-81-67
450	imm. ♂	<u>Citellus beecheyi</u>	wt. 414.6 gm. 391-146-55-27
451	imm. ♂	<u>Citellus beecheyi</u>	wt. 441.3 gm. 388-170-54-27
452	imm ♂	<u>Citellus beecheyi</u>	wt. 365.4 gm 385-146-56-26

May 25, 1951

453.	ad. ♀	<u>Peromyscus maniculatus</u>	wt. 24.7 gm. 178-82-21-18
454.	ad ♂	<u>Cnemidophorus tesselatus</u>	wt. 23.8 gm. TL 322; T-V. 229
455.	imm. ♂	<u>Citellus beecheyi</u>	wt. 263.8 gm. 355-152-52-24
456	imm. ♀	<u>Citellus beecheyi</u>	wt. 386.0 gm. 400-157-55-27
457.	imm. ♀	<u>Citellus beecheyi</u>	wt. 355.3 gm 364-143-52-28

May 26, 1951

458.	♀	<u>Neotoma fuscipes</u>	wt. 124.1 gm. 320-164-36-29
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May 27, 1951

459.	imm. ♀	<u>Neotoma fuscipes</u>	wt. 151.1 gm. 336-174-39-30
460.	ad. ♂	<u>Neotoma fuscipes</u>	wt. 310.8 gm. 386-180-41-31
461.	imm. ♀	<u>Thomomys bottae</u>	wt. 79.6 gm. 191-58-27-7

July 8, 1951

Moreno Badlands, 6 mi E Moreno, Riverside Co., Calif.

462	imm ♀	<u>Carpodacus mexicanus</u>	
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Catalogue

July 19, 1951

W. Bitterwater, Monterey Co., Calif. coll. by. W. MacGregor

462. imm. ♂ Pica nuttalli

August 8, 1951

1 mi. N. Arlington mine, 20 mi. W. 15 1/2 mi. N. Blythe, Riverside Co., Calif.

463. Zenaida asiatica nest (in ironwood)

464. Zenaida asiatica egg

465. Zenaida asiatica egg

November, 1951

466. Sciurus douglasii albolimbatus ♂ 344-138-50-21 (coll. V. Mowbray)

467. Sciurus griseus griseus ♂ 566-278-73-29 ( " " )

gift from MVZ; no skulls; from Yosemite Nat. Pk. Mus.; Yosemite Valley

December 25, 1951

<sup>4</sup> miles N. Foothill Blvd., on Edwanda Ave., elev. 2500';

468. ♂ imm. Passerella iliaca

fat

469. ♂ imm. Pipilo fuscus

not "

470. ♂ imm. Junco oreganus

December 29, 1951

elev. 2000'

Mouth of San Antonio Canyon (E), N. Upland, San Bernardino Co., Calif.

471. ♂ ad. Thomomys bottae

February 29, 1952

Pool 145 Lab., Life Science Bldg., University of California, Berkeley, Alameda Co., Calif.

472. ♀ Rattus

Mar. 1, 1952

4 1/2 SW Martinez, Contra Costa Co., Calif. coll. Dick Kennelly

473. ♂ imm Agelaius phoeniceus testes small

March 1952

pick-up

West Gate, University of California, Berkeley, Alameda Co., Calif.

474. ♂ imm Turdus migratorius testes 4x5 mm

475. ♀ imm. Columba livia



Kristman, J.H.

1952

# Catalogue

(Mar. 28, 1952)

476. ad. ♀ Columba livia embalmed from Zool. Dept. U.C. for dissection

\* 477. ad ♀ " " - skeleton saved.

} April 26

478 ad. ♂ " " -

479. ad ♀ " " -

May 6

\* 480 ad. ♀ " " - skeleton saved

May 19

\* 481. ad. ♀ " " - " "

June 13

482. " "

483 " "

MVZ  
Collection 484 " "

485 " "

486 " "

487 " "

488 " "

489 " "

490 " "

491 " "

492 " "

493 " "

494 " "

495 " "

496 " "

497 " "

498 " "

499 " "

500 " "

501 " "

502 " "

503 " "

504. ♀ Streptopelia risoria <sup>gonads only</sup> (see R.F. Johnson \*189 - Aug. 27, 1952)

505. Columba livia

506 " "

507 " "

508. " "



istman, S. M.  
1952

Catalogue

509	<u>Columba</u>	<u>livia</u>	see "collections" in pigeon notes
510	"	"	" " "
511	"	"	" " "
512	"	"	" " "
513	"	"	" " "
514	"	"	" " "
515	"	"	" " "
516	"	"	" " "
517			
♀ 518			
519	<u>Columba</u>	<u>livia</u>	
520	"	"	
521	"	"	
522	"	"	
523	"	"	
524 ♀ XXI	"	"	
525 ♀ XXII	"	"	
526	"	"	
527	"	"	
528	"	"	
529	"	"	
530	"	"	
531	"	"	
532	"	"	
533	"	"	
534	"	"	
535	"	"	
536 ♀ XXIII	"	"	
537	"	"	
538	"	"	
539 ♀ XXIV	"	"	
540 ♀ XV	"	"	
541	"	"	
542	"	"	



Christman, S.M.  
1952

# Catalogue

Nov. 29 1/2 mi. SW Manly Ranch, 4 mi. W. Lakeport, Lake Co., Calif.

ad. p. 543. ♂ pubescens testes 1 mm ± wt. 57.4 gm.  
544 ad. ♀ \* Oreortyx picta no oviducts, very fat, wt. 253 gm

November 30, 1952

p. 545. ad. ♀ Aphelocoma coerulescens pacifica (?) - wt. 78.9 gm  
546. ad. ♂ Toxostoma testes - 2 mm. wt. 103 gm

547. Columba livia

548. " "

549. " "

550. " "

551. " "

552. " "

553. " "

554. " "

555. " "

556. " "

557. " "

558. " "

559. " "

560. " "

561. " "

562. " "

563. " "

564. " "

565. " "

566. " "

Dec. 14, 1952

Brooks Island

Collected by R. Genelly

567 ♂ Oxyura

testis (lt.) 9 mm. wt. 637.5 gms.

568 Columba livia

Dec. 17

569 ♂ " "

" 18

\* crop contents saved - to F. & G. Food habits lab.



Kristman, J. M.  
1952-  
1953

# Catalogue

December 26, 1952

2 mi SSE Yucca Valley (Warren's well) near Maricopa Valley, San Bernardino Co., Calif

570. ♂ (ad.?) Heleodytes brunneicapillus

testes - 2 mm

571 ♂ Dendrocopos scalaris

testes 2± mm.

572 Columba livia

Lake Merritt

573 C. " "

" "

574 " "

" "

January 29, 1953

575. ♀ Larus californicus

362.0 gms

Albany, Alameda Co., Calif.

coll. by David Johnston

February 5, 1953

576. ad. ♀ Junco oreganus

15.4 gm

found dead on U.C. Campus, Berkeley, Alameda Co., Calif.

1 mi S. Butte Co., Calif.

D.O.R.

coll. W.G. MacGregor

577. ♀ Columba fasciata

preserved —

wt. 395.

578 Columba livia

579 " "

580 " "

Feb. 11, 1953 (coll. Feb. 6)

D.O.R. 1 mi. S. Sauer Lake Lake Co., Calif.

coll. David Johnston

581 ad. ♀ Sturnella neglecta all ova under 1 mm.

wt. 88.5

582 Columba livia

583 " "

584 " " XXX

585 " " XXXI

586 " " XXXII

587 " " (582)

588 " " (581)

589 " "

590 " "

591 " "



Christman, J.  
1953

Catalogue

Berkeley + Bay area

592			Columba livia	data sheets
593	✓		" "	"
594	✓		" "	"
595	✓	♀	" "	"
596	✓	♀	" "	"
597	✓	♂	" "	"
598	✓	♂	" "	"
599			" "	"
600			" "	"
601			" "	"
602			" "	"
603			" "	"
604			" "	"
605			" "	"
606			" "	"
607			" "	"
608			" "	"
609			" "	"

Coll. D. Johnston  
119 gm.

610 ad ♀ Dendroica auduboni

Mar. 8, 1953

3 1/2 mi. W. Lakeport, Lake Co., Calif. in orchard Manly Ranch; Dick Take

611 (ad. ♀?) Cyanocitta stelleri 112.5 gm.

4 mi. SW Lakeport, Lake Co., Calif. in deciduous oaks in very open woodland.

612 ad. ♂ Aphelocoma testes 7 mm. 90.3 gm.

"4 mi. glade," mi. W. Lakeport, Lake Co., Calif. Sherton road at 7: PM ±  
613 ♂ Phalaenoptilus nuttallii testes 3 mm. (light color); fatty 50. gm.

Mar. 24, 1953

Berkeley Dump, Alameda Co., Calif. found alive on shore, old

wing head 614 ♂ Hemiphysalis occidentalis Mr. Makino took testes <sup>chromosome</sup> study in Japan.



1953

## Catalogue

Berkeley, Alameda Co., California

615	Columba livia	on data sheet	✓
616	" "	" " "	✓
617	" "	" " "	✓
618	" "	" " "	✓
619	" "	" " "	✓

June 19, 19531 mi. NW. Levitt meadows, Mono Co., Calif.620. ad. ♂ (2 mm testes) Stellula calliopeMVZ 621 ad. ♀ Dryobates albolarvatus 56 gms.~~1 mi. NW. Leevining, shore of Mono Lake, Mono Co., Calif. elev. 6425 ft.~~622 ad. ♀ Hctitis macularia 47 gms.

oviduct enlarged, 17 mm. yellow ova 2-4 mm in diam

June 20, 19531 1/4 mi. ESE Leevining, Mono Co., Calif. elev. 6425 ft.623 ad. ♀ Chondestes 137-33-19-17 (notch) <sup>lactating</sup> <sub>post-partus</sub>624 ♀ Perognatus 152-80-22-8 "

625 ♂ " 154-75-22-8 "

1 mi. N. Leevining, shore of Mono Lake, Mono Co., Calif. elev. 6425 ft.626 ad. ♂ Recurvirostra americana1 1/4 mi. ESE Leevining, Mono Co., Calif. elev. 6450 ft on roadMVZ 627 ad. ♀ Chordeiles minor 53 mm ova; 1 ovid. foll.

628 ♂ 1 mm. testes

Packer Island, Mono Lake, Mono Co., Calif.

MVZ 629 ad. ♀ extensive brood patch

" 630 ad. ♂ closed protuber. Testes 8x10 mm

631 ad. ♂ " " collected where 622 was

643 ♀



Richard, J. G.

# Collection

August 17, 1953

1 mi. W. ~~Alta~~ Loma, San Bernardino Co., Calif.

632

ab.

Dec. 15, 1953

~~633~~ 1 mi W. Alta Loma, San Bernardino Co., Calif.

633 ad. ♂ Thryomanes bewickii

testes 1 mm

634 ad. ?

Sept. 13 1953  
~~Dec.~~

(Coll. a. Bartholomew)

2 1/2 mi. W., 4 mi. N. Upland,

San Bernardino Co., Calif.

635 ♂ Sylvilagus auduboni ear 70 (N), HF 85, T 49. testes 37 x 19

6 October 1954

KRNT<sup>N</sup> Tower, Des Moines, Polk Co., Iowa

636 ad. ♀ Passerina cyanea ovary small even granular fat

637 imm. ♀ Vireo solitarius " " " " "

638 imm. ♀ Vireo olivaceus " " " " heavy "

639 imm. ♂ testes = 2 ± 1 mm. " "

640 imm. ♀ ovary small a little "  
(coelom filled with round worms)

641 ad. ♀ " " finely granular little "

7 Oct. 1954

(locality as above)

642 ? ♀ ovary small - heavy fat

20 Dec.

3 mi. N. Foothill Blvd, on Edicanda Ave,

San Bernardino Co., Calif.

643 ♀ Bubo virginianus

December 25, 1954

1 mi. NW Alta Loma, San Bernardino Co., Calif.

644 ad. ♀ Falco sparverius ova small, - 1 mm.

Dec. 26 1954

same loc.

645 ad. ♀ Accipiter velox (operantia crop)

Sept. 1955

646 imm. Melospiza melodia

1956

647 (??) ♀ imm. Accipiter velox no fat  
crop - feathers, meat, pin feathers.



Wishman, G.C.

Collection

21 Dec. 1956

5 $\frac{1}{2}$  mi. S. Simmler, Carrizo Plains, San Luis Obispo Co., Calif.

647 ad. ♀ *Otocoris alpestris*

648 ad ♂(?)

23 Dec. 1956

Alta Loma, San Bernardino Co., Calif. home

649 ad. ♂ *Mimus polyglottus*

30~~29~~ Dec. 1956

5 mi. SE Coalinga, Fresno Co., Calif.

650. ad ♀ *Rana* ovary-large minutely granular.

19 Jan. 1957

D.O.R.

Marin Co., Calif.

651. ♀

556-264-79-35(0)

27 Feb. 1957

1 $\frac{1}{2}$  mi. E. Lake Chatot, Solano Co., Calif. (Vic. Lewis) coll. by

652 ad. ♂ *Gallinula chloropus* (116 study collection)

653 imm(?) ♀

" "

2 foll. 1 mm.  
ovary granular minutely

18 August 1957

Small lake NE Lake Winnamucca, Alpine Co., Calif. 9,000+ ft

WZ { 654 ad. *Rana boylei* (66188)  
655 Tadpole " " (66189)  
656 " " " (66190)

29 Aug. 1957 =

Hopland Field station, Mendocino Co., Calif

657 ad. ♀ *Falco*

large granular ovary 81 gm.

658 ad. ♂ *Falco*

16.7 gm

6 Sept. 1957

2 mi. N. Alta Loma, San Bernardino Co., Calif.

659. imm. ♂

very fat

660 imm ♀

661 ad. ♀



<sup>3</sup>  
4 April 1958

14.7 mi. NE Globe, Gila Co., Arizona on Hwy 77 Semi-desert  
Grassland

662 *Chionactis occipitalis* (66822)

13.9 mi. NE Globe, Gila Co., Arizona on Hwy 77 Chaparral

663 pick-up skull-jaws only (122411)

4 April 1958

15 mi. SE Globe, Gila Co., Arizona on Hwy 70 desert scrub

664 *Sceloporus undulatus* (66817)

5 April 1958

3.6 mi. E of bridge at Ehrenberg, Yuma Co., Arizona

665 *Cnemidophorus sacki* (66818)

666 *Uta stansburiana* (66819)

667 *Uta* " (66820)

23 mi. S. of Needles, San Bernardino Co., Calif.

668 *Uta stansburiana* (66821)

~~669~~ Dec. 3, 1958

Tule Duck Club, 10 mi S. Marysville, Yuba Co., Calif.

669 imm ♂ *Rimantodytes palustris*

670 ♀ *Podilymbus podiceps*

671 ♂ (testes 2x11 and 3x9 mm)

10 April 1959

1 1/2 mi. W. of Weed, Siskiyou Co., on Shasta River, 3,100'; Calif.

672. eggs frog

673.

11 April 1959

Dickson Flat, on Hwy. 89, <sup>Shasta</sup> ~~Siskiyou~~ Co., Cal. 4,200 ft

7 3/4 mi. NNW Cayton

674 *S...*

675

676

677



Dietmann  
1959-  
1960

# Collection

Sept. 13, 1959

Navajo Cr., W. Navajo, Mendocino Co., Cal.

678

*Rana boylei*

Sept 20, 1959

10 mi. S. Marysville, Yuba Co., Calif. "Cattail Club"

679

♀

pale grayish  
granular ovary

6 Dec. 1959

Cattail Club, 10 mi. S. Marysville, Yuba Co., Calif.

680

♀

*Triturus flavipes*

681

♀

"

*melano leucus*

682 - 699 Joshua Tree N.M. Trip

all specimens in MVZ

4 July 1960

Brooks Island

(probup - Bill Lickie)

700

ad. ♂

*Sorex araneus*

testes 3x12 mm.

The following blackbirds were collected by Gordon

Orans, under his permit & were put up in my special way.

Nov. 6, 1959 (kept in my habitat till put up on 10 Dec. 59

4 mi. W. Colusa, Colusa Co., Calif.

701

ad ♀

May 8, 1960

Nashel Ranch (Cattail Club), 10 mi. S. Marysville, Yuba Co.

702

♂

*Agelaius*

p.

703

♂

704

♀

May 30, 1960

Nashel Ranch

705

♂

*A.*

p.

first year

13 mi. NE Colusa, Colusa Co., Cal.

706

ad ♂



Estuarian, J. M.  
1960

Collection

continuation of *Oreanus blackbirds* -  
June 8

15 mi. NE Colusa, Colusa Co., Calif.

707 ♂ A. tricolor

708 ♂ "

709 ♀ "

Oct. 2, 1960

changed

(707) Naskell Ranch, 10 mi. S. Marysville, Yuba Co., Calif.

VZ 710 ad. ♂ *Agelaius tricolor* skull oss. testes 3x4mm test. 64.3  
gms

Oct 11, 1960

same locality

713 ad. ♂ *Agelaius tricolor*

714 ad. ♂ " "

715 ad. ♀ " "

716 ad. ♂ " "

717 imm. ♂ " *phaeniceus*

718 ad. ♀ " *tric.*

719 imm. ♂ " "

720 imm. ♂ " *phaen.*

721 ad. ♀ " *tric.*

722 imm. ♂ " *phaen.*

723 ad. ♀ " *tric.*

MVZ coll.

724 ad. ♂ *Sturnella magna*

26 Nov. 1960

680 Spruce, Berkeley, Alameda Co., Cal. - furred  
dead by Charles A. Pease.

711 ♂ " testes 1mm. heavy fat

2 Jan. 1961

712 Naskell Ranch, 10 mi. S. Marysville, Yuba Co., Calif.

ad. ♀

2

Wistman, S. M.  
1961

Collection

725 -  
849

Museum of Vertebrate Zoology field trip to the Sierra  
del Rio, Chihuahua, Mexico 14 August to 8 Sept.  
Specimens in MVZ collection

October 22, 1961

Berkeley, Alameda Co., California

850 ♂ s.n.o. Hylocichla guttata

Dec. 13, 1961

851 ♂ s.n.o. Amphispiza bilineata

mod. fat, testes - 1 mm.  
Coll. A. J. Koenig San Ridge

30 Dec. 1961

10 mi. S.,

Marysville, Yuba Co., Calif.

852 ♂ Anas acuta

853 ♂ Flythya collaris

854 ♂ Ondotrea z. destroyed

30 April 1962

4 mi. NW Orinda, 450 ft., Contra Costa Co., Calif.

salvaged from R. Root stomach sample series &  
collected under his permit

855 ad. ♂ Dendroica occidentalis

856 ad. ♂ " tawousendi

857 ad. ? Myarchos cin.

858-926 MVZ trip to Snake Range, Nevada

14 Oct. 1962

by H. G. Cogswell

Alameda, Alameda Co., Cal. Pick ups of storm kills

927 imm. ♂ Amphispiza bilineata

testes 2 mm - small amount fat

928 ad. ♀ Amphispiza bilineata

small granular ovary " " "

28 Oct. 1962

10 mi. S. Marysville,

, Yuba Co., Cal.

929 ad. (s.o.) ♂ (C?) Regulus calendula

930 ♀ Gallicula chloropus

moderate fat



Christmas, G.D.  
1963

Collection

24 Feb. 1963

Clearing Reservation,

Napa Co., Calif.

931 ad. ♂ *trochil*

932 ad ♂ *montis*

933 ad. ♂ *l. p. ...*

testes 5mm

934 - 1107

W. H. Z. June 1958

3 (6) July

Farallon

SE ~~Farallon~~ Island, San Francisco Co., Cal. Coll. D.R. Medina

1110 ♀ (?) *...* no fat; died of starvation

2 Oct.

Emeryville, Alameda Co., O', Calif. (# 398 G.E. Chaniot)

1111 ♀ *...* moderate fat, minute ova wt. 379.9

3 Nov.

10 mi. S. Marysville, Yuba Co., Calif.

1112 ♀ *Oxyura j.* little fat.

1113 ♀ *Accipiter striatus*

1114 ♀ (juv.) *Ondatra z.* little fat, juv. - small anag. uter. skull crushed - not saved 436-192-76-21

1115 ♂ imm. skull n. oss. slight fat

22 Dec.

Alta Loma, San Bernardino Co., Calif.

1116 ♀ (ad. sk.) *Parus gambelii*

164

25 April 1964

Hopland Field Station, 800 ± ft.

Mendocino Co., Calif.

clavical protub.

testes 10 x 7 mm, little fat.

1117 ♂ ad (s.o.) *Icterus bullockii*

1

26 April

Hopland Field Station, 2,700 ft., 2 mi E, 3 mi. N. Hopland, Mendocino Co., Calif.

1118 ♀ ad *Colaptes cafer* ova upto 3mm; moderate fat, bare breast.

1119 ♂ ad (sb. oss) *Phenictus melanocephalus* no fat, testes 12 x 8 mm clavical protub.

1120 ♂ *Melanerpes formicivorus* fat, testes 5 x 4 mm

1121 ♂ ad (sb. oss) *Pipilo eryth.* little fat, testes 12 x 6 mm clavical prot.

1122 ♂ ad (sb. oss) *Pitta carolinensis* no fat, testes 6 x 4 mm

1123 ♂ ad (sb. oss) *Myiarchus cinerascens* fat, testes 9 x 6 mm



Christman, S. E.

1964

26 April 1964

Hapland Field Station, 2730 ft., 2 mi. E, 3 mi. N. Hapland, Mendocino Co., Calif.

- 1124 ♂ (sk. oss.) Chondestes grammacus no fat, testes 6x11 mm
- 1125 ♂ (sk. oss.) Troglodytes aedon no fat, testes 7x4 mm
- 1126 ♂ (sk. oss.) Amphispiza belli little fat; testes 8x6 mm
- 1127 ♀ (sk. oss.) Sialia mexicana no fat, <sup>many</sup> ova 1 mm
- 1128 ♂ ad (sk. oss.) ~~Carpodacus~~ Spizella passerina fat; testes 5x4 mm
- 1129 ♂ ad (sk. oss.) Carpodacus fat, testes 2x2 mm. <sup>for rare</sup> 2 testes
- 1130 ♂ ad (sk. oss.) Dendroica auduboni fat, testes 2x3 mm
- 1131 ♂ ad (sk. oss.) Wilsonia pusilla moderate fat, testes 3x2 mm

10 August 1964

died in captivity, as "falcon", thru H. J. Peeters

- 1132 ♀ Falco mexicanus small bilateral ovaries, a little fat

13 August 1964

(Hamburg, Germany) thru H. J. Peeters - died of injuries "falcon"

- 1133 ♂ imm. Accipiter testes 2x5 mm., little fat.

27 Aug. 1964

Oakland Air Port, Alameda Co., Calif. Coll. M. Pontrelli

- 1134 ♀ Falco mexicanus fat, small inactive ovary

6 Sept. 1964

10 mi. S. Marysville, Yuba Co., Calif.

- 1135 ♀? sk. no oss. Falco mexicanus fat

29 Nov. 1964

Cattail Club, 10 mi. S. Marysville, Yuba Co., Cal.

- 1136 ♂ Anas cyanoptera very fat, testes 9x4 mm
- 1137 ♂ Aythya collaris fat, testes 10x4 mm.

5 Dec. 1964

5<sup>+</sup> mi. W. Monterey, at sea, Monterey Co., Calif.

- 1138 ♂? Cerorhinca monocerata fat

1<sup>+</sup> mi. W. Monterey, at sea, Monterey Co., Calif.

- 1139 ♀ Synthliboramphus antigium many small ova, very fat
- 1140 ♀ Larus heermanni very small ova, very fat



Kristman, J. L.  
1965

Collection

20 March

"Muddy Hollow", 60 ft., 3 1/4 mi. W, 1 1/4 mi. S. Point Reyes Station,  
Marin Co., Calif.

- 1141 ♀ *Sphyrapicus varius* moderate fat, ova minute
- 1142 <sup>sp. os.</sup> ad. ♀ *Dendroica coronata* ova minute
- 1143 ad ♀ sp. os " " moderate fat, minute ova
- 1144 ♂ *Dendrocopos villosus* testes 11x6 mm. light fat

9 May

Bodega, Marin Co., Calif

- 1145 ♀ *Lobipes lobatus* pick ups by a. Sikora, U.C. 2 days  
very fat, ova 1 mm. wt. 32.4 gm

/



Christman, J. H.  
1965

Collection

May 24

10 miles N. Blythe, Riverside Co., Calif

- 1146 ♀ *Chordeiles acutipennis* 1 uncl. follicle; no fat, no head patch  
• 1147 ♂ " " testes 7x4 mm " "

May 25

6 mi. S, 1 mi. W. Blythe,

Riverside Co., California

- 1148 ♂ (sh. ova) no fat, testes 5x10 mm. <sup>1117</sup>  
• 1149 ♂ *Zenaida asiatica* no fat, testes 5x16 mm. grain in crop, no "milk" windows  
• 1150 ♂ *Columbigallina passerina* no fat, testes 5x9 mm. sb. no ova  
• 1151 ♀ " " no fat, ova 2 mm.

preserved specimens in MVZ

- 1152 *Zenaida asiatica*  
• 1153 " "  
• 1154 *Columbigallina passerina*  
• 1155 " "  
• 1156 " "

Oct. 8, 1965

1 mile SE Dillon Beach, Marin Co., Calif.

- 1157 ♂ *Larus heermanni* fat, testes 2x4 mm.  
• 1158 ♂ *Limosa fedoa* moderate fat, 1x4 mm.  
• 1159 ♀ *Charadrius alexandrinus* fat, many - 1 mm. ova  
• 1160 ♂ *Coccythia alba* moderate fat, testes 2x3 mm  
• 1161 ♂ *Erolia alpina* fat, testes 1 mm.  
• 1162 ♂ *Sayornis saya* little fat, testes 1x1 mm

Oct. 21, 1965

Curry Canyon, 900 ft., 3 1/2 mi. E, 4 1/2 mi. S, Clayton, Contra Costa Co., Cal.

- 1163 ♀? *Zonotrichia querula* slight fat



Christman, J. M.  
1965

Collection

25 Oct. 1965

Sagehen Creek Station, U.C., 6,400 ft., 3 mi. W., 2 mi. N.  
Hobart Mills, Nevada Co., Calif.

- 1164 ♂ sk. ass. *Loxia curvirostris* very fat, testes 1 mm.
- 1165 ♂ sk. nov. *Spinus pinus* moderate fat
- 1166 ♀ *Dendrocopos villosus* minute ova, slightly fat
- 1167 ♂ sk. ass. *Sitta canadensis* testes 1 mm.
- 1168 ♀ *Regulus satrapa*

Nov. \_\_\_\_\_

- 1169 ♂ moderate fat testes 1 mm.
- 1170
- 1171
- 1172

3 Dec

Curry Canyon, 900 ft., 3 1/2 mi. E, 4 1/2 mi. S, Clayton  
Contra Costa Co., Calif.

- 1173 ♀ sk. ass. *Cyanocitta stelleri*, slightly fat, small ova
- 1174 ♂ *Lophortyx californicus* testes 2 x 3 mm, slight fat

25 Oct. 1965

Sagehen Cr. Station, U.C., 6400 ft., 3 mi. W., 2 mi. N., Hobart Mills,  
Nevada Co., Cal.

- 1175 *Tamiasciurus langstadii*

1966

South Farallon Island, San Francisco Co., Calif.

- 1176 ♂ *Ptychoramphus aleutica* testes 5 x 16 mm patches on sides

11 May 1966

Curry Canyon, 900 ft., 3 1/2 mi. E, 4 1/2 mi. S, Clayton, Contra Costa Co., Cal.

- 1177 ♀ *Dendrocopos villosus* ova 2 mm.
- 1178 ♀ sk. ass. *Interpres caudatus*



Wistman, G M  
1966

## Collection

28 May 1966  
6400 ft

Calif.

Sagehen Creek Station (U.C.), 2 mi. N, 3 mi. W. Hobart Mills, Nevada Co.,

1179

*Empidonax*

1180 ♂ *Wilsonia pusilla*

testes 5x8 mm. no fat, no brood patch

1181 ♂ sk.oss. *Passerella iliaca*

testes 6x8 mm. little fat, singing

29 May

1182 ♀ *Certhia familiaris*

small ova, brood patch

1183 ♂ sk.oss. *Sialia currucoides*

testes 8x12 mm, moderate fat  
Cloacal protub.

1184 ♀ sk.oss. *Vireo gilvus*

ova 2 mm. no fat

1185 ♀ *Empidonax*

ova 2 mm, mod. fat, brood patch

1186 ♂ sk.oss. *Spizella passerina*

testes 6x9 mm. little fat, cloacal protub.

1187 ♂ *Geothlypis trichas*

testes 5x6 mm.

1188 ♀ sk.oss. *Myiophobus cinerascens*

ova 3 mm, fat

30 May

1189 ♀ *Scolecophagus varius hyemalis*

anul. foll. broad patch  
ova 3 mm moderate fat

1190 ♀ sk.oss. *Myiophobus cinerascens*

ova 3 mm. slight fat

1191 ♀ *Chaetura vauxi*

fat sublingual gland  
ova 2 mm, anul. foll. no brood patch  
(only one testes)

1192 ♂

testes 6x12 mm. fat

June 21

1193 ♂ *Dendroica coronata*

mod. fat, testes 1 mm.

Oct. 23,

1194 ♂ *Perisoreus caninus*

fat, testes 2x5 mm

1967

(Oct. 23 1966)

Coll. P.L. Hines - permit

10 mi. NW Monterey, Monterey Co., Cal.

1195 ♀ *Fulmarus glacialis*

no fat, minute ova

1967



Christman, Phil  
1967

Collection

7 Dec. 1967 coll. P.H. Flues - net

Point Isabel, Contra Costa Co., Calif. elev. 0'

1196	♂	small	testes 1+mm	no fat
1197	♂	medium	" 1mm	" "
1198	♂	"	" 1mm	" "
MVZ 1199	♂	"	" -2mm	" "

Jan. 1968

Lunenburg, Marin Co., Calif. D.O.R. coll. H. Walter

1200 ♀ sk. ass. *Ixoreus naevius* minute asc, slight fat

Sept. 23, 1968

Spokane, Spokane Co., Washington coll. = <sup>D.O.R.</sup> M. Weagha

1201 ad. ♂ *Bonasa umbellus* no fat, 2x3 in testes

11

Christman, G.  
1943-94

Journal

1965, 1974-1976 Calif: Alameda, Marin Cos.



Christman, Jh  
1965

Barnal

2030 Del Norte, Berkeley, Alameda Co., Calif.

Anne & I moved into this house on August 28th. The next a.m. we were awakened by Lincoln-tits peeping out the window. Several of the house-lin. sp. & 4 or 5 house finches flew in at once & landed on the 2nd floor. I put out a pan of the Co-op bread & some bird seed. Took the bread & had put out. On Sept. 11 I saw one Brown towhee on several occasions on the front "feeder". The bird was in heavy molt about the head. I also put up a golden-hummingbird feeder and saw them several times.

17 Sept. 4/3 of the Red sugar water was hung out of the feeder. The birds ate this and put out in the late afternoon. The house-lin. sp. & 4 or 5 house finches in a.m. & p.m. 8-9; 5:00-7, and the 1st dining room - mainly an entire within 10 ft. of the room & in a small tree next door. Several times the bird flew after another hummer. There are two birds out now. One is flying in and front. More singing from house-lin. sp. calling every afternoon late & early a.m. Last week saw a robin in yard 10:30, and heard a chickadee - no flycatcher. Bush-tits in back yard several times.

Last night I brought up lunch in a "leak" landing in the front, 2 or 3 times. A hawk seen there among dead branches, etc.

25 Sept. 4 towhees feeding on ledge at 7 p.m. then flew to oaks in Gillian's yard. Robins in for some time. Heard Canyon woodpecker & house finches in back yard late in the afternoon. Saw next seen the house-lin. sp. in front of the house.



notman, G. M.  
1965

Journal

2

29 Oct.

2030 Del Norte St. Berkeley, Alameda Co., Calif.

Several weeks ago saw all spotted towhees in yard. The ♂ hummer (Anna) with its tongue always out disappeared in early Oct. For about 2 weeks the activity of hummers was nil. Then we moved the "tongue twister" down to front porch and side of the dining room. Another bird has appeared. It seems to be a male - am unsure. Have not seen 2 hummers at one time. Today Anne saw 2 flying close together - not chasing. Have noticed many (12+) flying high here & N. of campus. Little other activity.

30 Oct. Robins & Cedar waxwings feeding on Citroncades N. of front of house in Williams yard.

Nov.  
14 ~~Oct.~~ Yesterday & this a.m. saw 2 Rufous-bellied chickadees in yard. This a.m. 2 feeding several ft. apart in Lagoon, etc. Also, the first Plain tit were seen - first one in arb in front yard & was in afternoon 2 in trees in back. The ♂ Anna Hummer feeding consistently now. - active during light rain, as was House towhee. No jays in yard lately. House sparrows feeding on front ledge often now. Heard first white-crowns last weekend. None seen in yard yet.

21 Nov. Last weekend I put out a small pile of worm castings in backroom up stairs, put out bird mix and during week Anne noted: White-throated sparrow, B. towhee and House Finch, Citroncades (2), Song Sparrow - The latter seen last week for first time. Hummer about and in in front now - it now feeds every several minutes and in front at 8+ a.m. very active, esp. in territorial behavior; have heard several chirps.



istman, Jh,  
1965

Journal

3.

Dec. 7 2030 Del Norte, Berkeley Alameda Co., Calif  
The tray at the back of the house has a large  
climber now. We put up a small ceramic  
planter 6" x 6" round & deep suspended from the  
eave. First, put in sunflower seeds. They were  
gone over the weekend. Anne saw the plain  
titmouse in it today. Hermit thrushes eat  
Cotoneaster berries! Rufous-sided towhees  
here but not seen very often. Brown towhees  
surpass them; white-drawns also. The  
canary mix works better than Coop with bird mix!

1966

~~27 Feb.~~

5 Mar.

Have seen no Chestnut backed chickadees for at  
least a month. Many robins here & over on  
Los Angeles St. today - at least 30. A pair of  
rufous-sided towhees in the back, consistently.  
Today saw 2 mourning doves in the fir to NW,  
in front. Were not close together were  
investigating the horizontal branches  
of heavy clusters of needles. Believe these  
were just of this species I have seen  
here.

6 Mar.

2 mourning doves about fir again, heard  
cooing briefly. Purple Finch singing in  
fruit tree in white blossom needles.

Oct 1

not a bird seen  
so all day



Christman  
1974

Journal

22 Sept - From Berkeley to Limerick, Marin Co., Cal.  
and return (48) The trip  
takes 1 hr. 15 to 30 minutes & 92 miles.

Over at 4 p.m. to visit Janice  
Lougdon in a cabin they are now renting  
on shore of Tomales Bay. Tide was  
coming in all afternoon. Saw 1 GB Blue  
Heron, 2 Brown pelicans, some  
small terns (sp?) a few double-crested  
cormorants. One double-crested  
cormorant about dark came to shore  
& much diving - green when diving &  
purple on wings, dark facial skin. The  
tail was at or below water level.

Brian and Joel fishing caught some  
"bullheads" and one small periwinkle  
several light and yellow-striped  
athinids. & silver. Fog came in about  
4 p.m. A group of 20+ crows flew  
across bay to hill behind Limerick.  
Saw many turkey vultures on way  
over, only one sparrow hawk and  
no Buteos!

It will be practical to walk out of  
this area or adjacent areas -  
many houses about this area.

There is a road on the Lucas Valley  
road - the first time since then  
or at much less traffic than  
the other road.



Jan. Berkeley Bayfront, Alameda Co., Calif. 1:30 - 2:45 pm  
 Anne & I first went to inlet between the  
 dump & racetrack parking lot. Several hundred  
 canvasbacks. several buffleheads & Western  
 grebes & Horned Grebes. Ruddy ducks 1/10 the  
 number of Canvas. Coats - 50+ near the SE corner.  
 Then to beach S. of University Ave. Again  
 hundreds of canvasbacks in numerous rafts.  
 A loose open flock of a dozen knuts - very  
 chunky birds - legs appear short. In an  
 area at a bend near Ashby Ave. off ramp -  
 many rocks in water with about 100  
 starlings sitting on rocks - in several  
 situations some were pecking at green  
 algae on rocks. Numerous coats & gulls.  
 No other shorebirds from Univ. Ave  
 to Watergate except perhaps 25 knuts &  
 several willets. Also isolated scaup &  
 3 pintails & a few ruddys.  
 At outlet at University Ave. 3 or 5 knuts,  
 1 willet and three dranters.  
 Clear, few high clouds, fairly high  
 tide - windy.



Wistman  
1976

# Journal

18 Sept Caswell Creek

Arrived to meet my father and about 1 pm  
campsite #42 50 ft from the Stanislaus  
Stayed till 2:50 pm Sunday. Saturday was  
dark & clear, Sunday warm & pleasant with  
high clouds. The park is large with many big  
oaks, cottonwoods & a dense understory of  
elderberry & ash overgrown with grapes in  
many areas. Little bird life: swallows  
& robins & redwings flying over. Scrub jay  
about 50 crows & in trees near entrance,  
heard magpies & saw mated feathers  
only camp birds was a pair of plain  
tit-mice. Saw of about 10 valley quail  
& several rufous-sided towhees & a  
cottontail near the birds seen on the  
river.

Walked the trail to SW of camping area -  
R-S towhees, S. jay, crows & at the "wood  
duck" pond in a dead oak to T. culture &  
got a glimpse of a small water hole  
thru the oaks. This pond is N-S oriented  
parallel to river 1/2 mi W of bathing  
beach. Last year at this time it was  
full of water & a half dozen wood ducks  
it is about 100 yds long shallow &  
rather consistent (1-2' deep) now with  
30 ft of water, mud substrate craking

at camp about 9 am. the 19th was standing  
near table & a cooper hawk came flying  
thru forest 6-3' above ground quiet,  
under trees (ash) & over brush -  
flapping & tail spread - 10' away



Christman  
1976

19 Sept Caswell State Park

The river was low 40' wide to about 4' deep at greatest near camp. The bottom is mud to light gravel & appears an ash in color no tubes, etc. Sandy shores & banks. Lots of dead trees in the water - cottonwood, mainly & tamarisk from silt near south bank. Lots of willow on edges.

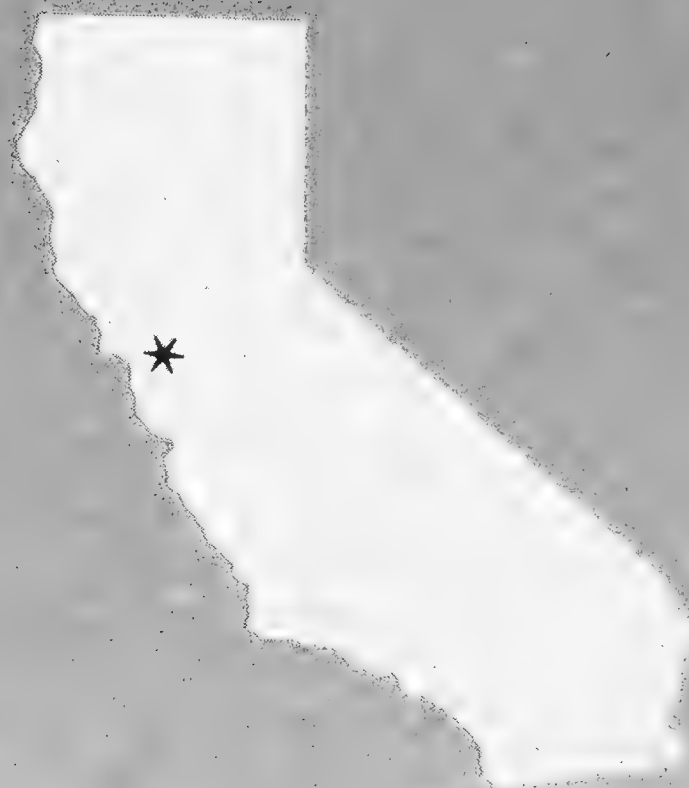


Caswell Memorial State Park  
28000 S. Austin Road  
Ripon, California 95366  
Telephone: (209) 599-3810

# CASWELL MEMORIAL

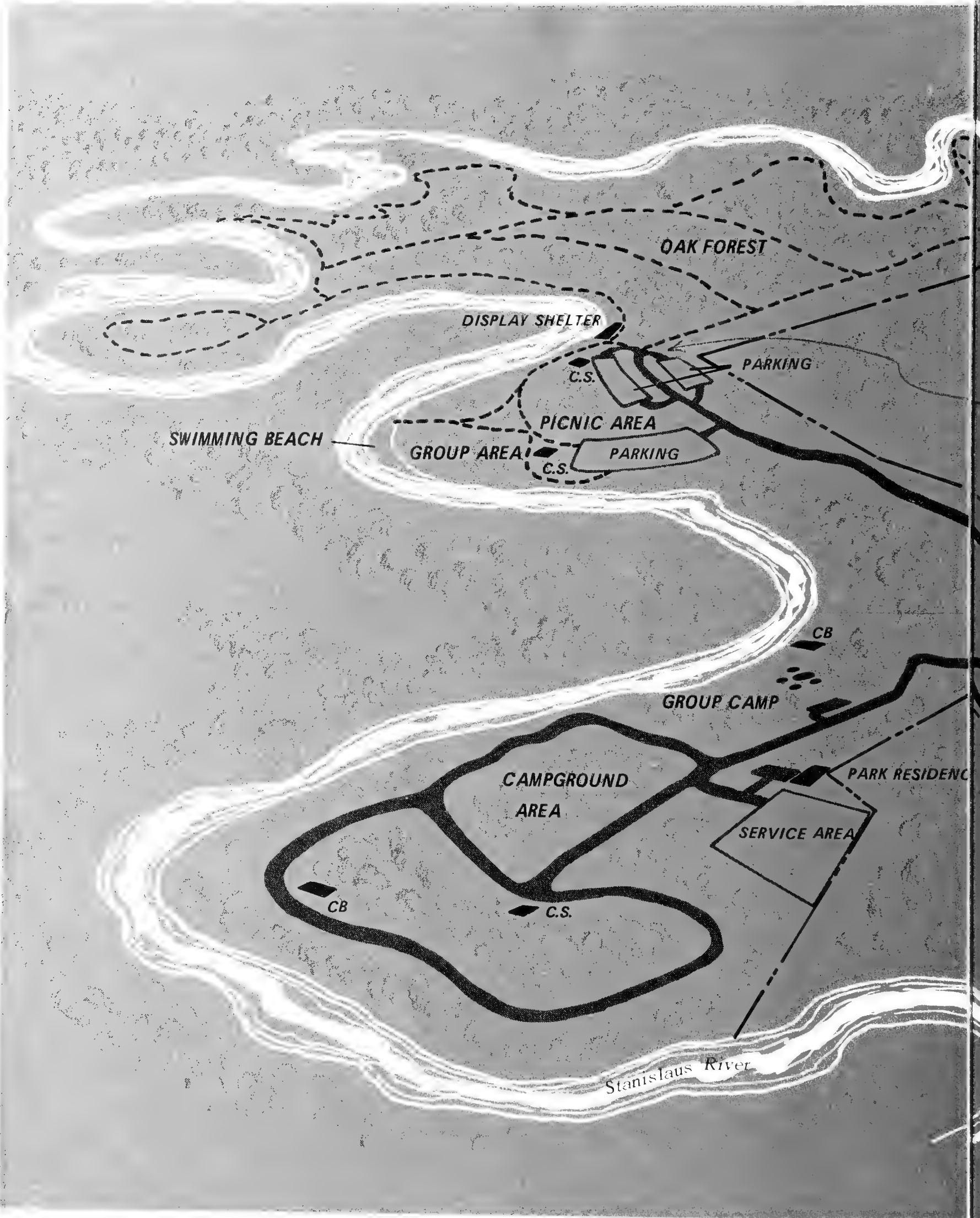
## STATE PARK

**STATE OF CALIFORNIA  
THE RESOURCES AGENCY**



**DEPT. OF PARKS AND RECREATION  
P.O. BOX 2390  
SACRAMENTO 95811**





BLUE HERON ROOKERY

*pond with wood ducks*

*access road*

*next to field, pipe lock, no parking sign at entrance to road*

## CASWELL MEMORIAL STATE PARK

ROAD

TRAIL

COMFORT STATION

COMBINATION BLDG.

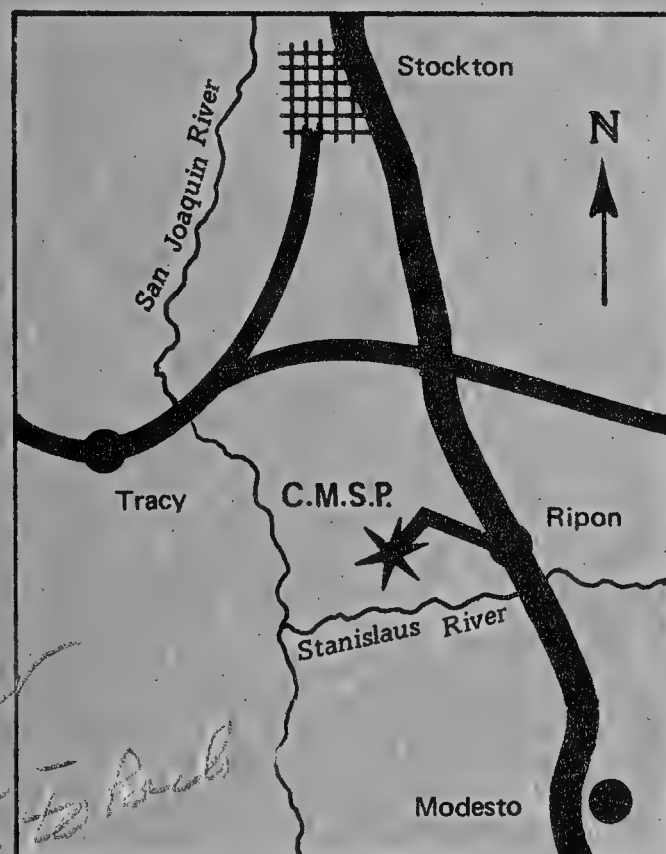
CS

CB

PARK OFFICE

PARK ENTRANCE

*to Manteca  
on to 99 & turn  
off & drive S. at  
dust in Road show  
1 mi S of Manteca  
3 mi to Park*



## CASWELL MEMORIAL STATE PARK

Caswell Memorial State Park is six miles southwest of Ripon in the San Joaquin Valley. It abounds with wildlife such as opossum, skunk, raccoon, fox, rabbit, muskrat, and the beautiful wood duck.

The valley oak - *Quercus lobata* - found in the park is native only to California and grows best in the low flatlands, although it can also be found in the Coast Range to the west.

The park's 138 acres of valley oak are but a remnant of the large, hardwood forest that once covered much of the Central Valley's river banks and flood plains. Demand for firewood and efforts to clear the land for agriculture in past years reduced the virgin forest to a few isolated stands. Some of the stands protected in the park contain trees more than 60 feet high with girths of over 17 feet.

Minnie Elizabeth Pope, reflecting on her childhood years here in the late 1800's said "I could ride all over the place. We had many points of interest: a biggest oak tree and a tree that had been burned and had a buzzard's nest in it. I would go to see the young every spring. There was a beaver dam, a woodchopper's cabin, a pen to catch wild hogs, and the Indian burying ground. We cut as much as 300 cord of wood a season."

An area of her pioneering family's ranch is preserved in the park. It remains much as they, and the Caswells who bought the ranch in 1915, knew it.

An interpretive display giving the history of the park is at the head of the Oak Forest Nature Trail. The trail winds through fine stands of valley oak and along the Stanislaus River where a tangle of

undergrowth provides protection and food for the wildlife. Outside the oak forest a wide variety of tree and plant life can be found including wild roses, wild currant, and rambling blackberry.

Another trail 100 feet north of the display leads to a point where one can observe a great blue-heron rookery on the park's undeveloped west side, a popular field study area. Visitors should not approach within a quarter of a mile of the herons or they will abandon their nests.

## WATER SPORTS

The Stanislaus River, which winds through the park, has a beach and swimming area close to the day-use facilities and campground. Fishing is at its best in the summer when there are striped, largemouth and smallmouth bass, sturgeon, blue gill, catfish, shad, and buffalo carp. In the fall salmon and steelhead can be caught. Boats may be operated in the San Joaquin River, five miles west of the park.

Although valley temperatures reach the high 90's in summer, the shaded camp and picnic areas are often 15 degrees cooler. Family and group picnic facilities are available near the park's interpretive display. Tables and stoves are provided, but because of the extreme fire hazard open fires are not permitted.

## CAMPGROUND

In a pleasant wooded area beside the river there are 66 camp sites each with a table, stove, and food locker. Piped drinking water and comfort stations with hot showers are nearby. Reservation applications for the group campgrounds are available at park headquarters.

Christman, G.  
1943-94

Journal

1986-1994    Calif: Alameda Co., Berkeley



# Introduction

1 June '01

When I retired from MVZ  
31 Dec '86 I was determined to  
keep my hand in natural History.

So here are ten years  $\pm$   
of bird notes:

They were made mainly  
from my desk facing WNW.

They are a baseline of the  
species & populations for this  
specific site.

I was tempted to specialize  
in the behavior of several  
species. I didn't - so it's a  
generalized account.

I paid special interest where  
my observation disagree  
with "conventional wisdom"

Viz: ♂ House finch coloration  
is a factor of age not diet!

OK

Gene M. Christman



Christman, G.  
~1987

Del Norte Street, Berkeley, CA



tree-trimming



*from slides in notebook now deposited in MUZ  
slide collection*



Mustman  
1986

## Journal

13 Sept Del Norte St., Berkeley CA  
Saw a Stellar Jay in backyard  
yesterday - first time I've seen  
one of that sp. here in at least a  
month. Scrub jays 2 or 3 at most  
have been in the yard since.  
To day a small flock of Cl. L. Chickadees  
shaved up in the oaks & rhododendron

Fog yesterday with muddying clouds  
in afternoon little sun. This a.m.  
Clear at 8:30 a.m. by noon high  
Cirrus. Cool.

This year has been very abnormal -  
almost since first of August many  
fog most every day; much cooler  
September also foggy - therefore no  
hot weather.

The hawthorn & Elms started  
turning yellow 2nd week of  
August. Now piles of leaves on the  
street - 80% yellow, 20% green.  
The tree in front of yard house is  
most advanced in color & leaf  
drop.

19 Sept - as above - both Stellar & Scrub  
Jay in yard & upper landing.  
Several robins about elms - They  
were gone in the late summer.  
Until some time in June they were  
the first in the divorce song. at  
least 3 brown towhees at feeding  
station one still molting - about  
neck. First Song Sparrow at feed.



Wistman  
1986

# Journal

5 Oct. Del Norte St Berkeley, Alameda  
4:30 pm clear, quiet afternoon  
high 60s - was waiting in  
fray yard when two  
Ch. backed chickadees flew into  
Mingo pine 10' high. at 9' up there  
are three already adult 3" ones  
& one bird started jacking up  
standing next to (bird) on the  
cone it was reaching for. the  
bird and pulled it. it came  
down and it started eating  
the seed into the mouth &  
signaling the 1st & 2nd  
thru. dropped a cone the  
without signaling. it then  
came. The chickadee  
flew into the tree, then it  
followed it.

7 Oct. same - chickadees tearing  
at las cedar cones apart for  
seeds - they are very brittle & shatter  
very easily. For first time in  
ages hard-tails like in a landing  
with others. Both stiller & each pair  
about. Some Minnie's pecked at  
long exposed twigs - under  
canopy of live oak & oak. much  
of atlas birds. Cedar, Minnie's.

10 Feb 87 The "flavies" came out on the  
street cars to day. A group of  
Mixed flock in past week: 20-25  
Cush-tits and 3 or 4 R-b. chickadees  
and one or two sand warblers.



list number  
487

# Journal

1

15 Sept. Berkeley, del Norte St., Alameda Co., cal  
3: p.m. sunny & warm 2 piedated warblers  
one (♀) in elm, ♂ in Pitorpaeum

16 Sept 11:30 am clear warm, Ruby crowned  
Kinglet in oak in front

17 Sept Clear, cool breeze - elm to NW, 9:30  
am  
6 house finches perched at top -  
quiet, 2 R-c Kinglets, 2 + very yellow  
y-green nondescript markings  
lots of quiet activity.

Now about 20% of elm leaves have  
fallen - green leaves are very dilly  
still over 50% green, then yellow

18 Sept 11 am Clear warm several nondescript  
bright yellow - y-green and some  
green - white warblers feeding on  
edges of canopy of elms 60' up near  
top, methodical flying branch to branch  
searching - hidden most of time.

19 Sept. warblers foraging in the elms,  
not in the live oaks - all seem  
nondescript & too far away for id.

22 Sept 11 am the 2 local Br. T feeding  
with M. dove and 20+ House Finch. the  
latter are very frighty. but trees calling

25 Sept. still nondescript yellowish warblers  
in oaks & elms and 3+ goldfinches  
it appears in tops of elms. There are  
many small birds flying about the  
elms - can't id them -

26 Sept. The early am - dawn are very  
quiet - usually a scrub jay calls  
first. Sometimes doves coming to  
the ledge to feed.

Monarch Butterfly sail past as well as a white



Christman  
1987

Journal

2

29 Sept, del Norte St, Berkeley, Alameda Co, CA  
3:35 pm clear, warm, a large black  
corvid flew from W, slow deliberate  
strokes to the large clump of pines  
due N. - landed at top. After a minute  
it called a RAVEN - called half  
dozen times - low harsh caw, caw,  
caw. Perched head above horizontal  
& bill open. calls once every 2 minutes  
or so. First raven I've seen in  
Berkeley since ~~first~~ landed in cedar  
several months ago. The 3 caw  
3:48 a softer Qua - Qua. Repeated  
& blended into quaw between the  
2 calls - latter softer, not as loud  
and repeated only twice. 4:51 dropped  
steeply in a sail & flew off to NW  
30' over houses - 2 series of several  
flaps seen in 200  $\pm$  yds.

Monarch Butterflies saw a dozen  $\pm$   
today all in front of house my level -  
going NE to SW, slowly -

30 Sept The Fox Squirrel in front has been  
climbing out to the edge of the canopy  
of the oak and gleaning acorns.

1 Oct a Turkey Vulture soaring to N - high fog -

3 Oct. Clear, almost hot at 10 am on Solano  
ave. The lack of rain last winter  
is reflected now - the ivy in yards  
that are not watered regularly  
have a dull amber patina of  
dirt as are the still somewhat  
elm leaves that have not  
yet turned first pale green, then  
yellow then tan & fall.



Christman  
1987

Journal

3

3 Oct. del Norte St. Berkeley, Alameda Co  
in checking out the warblers & birds  
most of the new-descript yellow  
venter & high of green above ones  
are imm. or ♀ Wilson Warblers (unborn  
& see a ♂ yellow Warbler)

12:51 a laurel woodpecker flew by  
red on head ? no call.

2:38 pm 3 fox squirrels foraging for  
acorns on Q. agrifolia in front  
yard. Then two came together and  
one groomed another groomer was  
parallel to branch 2" 20' up on side  
groomee was perpendicular to  
branch this position for 3 minutes  
then groomee moved 8" parallel  
to smaller branch & grooming  
continued for another 3-4 minute  
session. groomed area down  
back from shoulders to hip & some  
on flanks. groomee alert, groomer  
half shut eyes & frequently scratched  
with hind leg. "He" worked incisors  
up & down. One squirrel was  
seen to eat acorn no sign of  
storage. Scrub jay has also  
marked over the tree, but squirrels  
are much more thorough. 2:52 pm  
attempted copulation with squirrels.

3:08 p Turkey Vulture circling N to E

Squirrels again: groomer agouti  
gray back in good condition - may have  
black penis - no scrotum, groomee -  
back is ragged - buff - very different -  
These two must be young of year



87

- 3 Oct. ad. male El. Berbelag, Alameda Co., CA.  
neither looks adult in size or development  
no vagumae development in either.
- 4 Oct. clear all day except for a few stratus  
11-1 pm. Flicker called early - at 3 pm  
was 84°F in kitchen patio 10-90's in the  
flat. No bird activity mid-day.
- 5 Oct. it was 100 in San Francisco  
yesterday - hot here until after  
dark. This a.m. - like 7:15 first  
light & sound - a robin - chuck,  
chuck, chuck - -, -, -. Then a  
scrub jay. off & on, in morning  
a good strong breeze with  
cascades of elm leaves falling.  
don't know wind direction; going to be  
hot today - absolutely clear.  
The Nature Company flags down the  
street showed wind from the NE!
- 6 Oct. suddenly a few oak moths flying  
in back & in front. 3 or 4 in evidence!  
Today 3rd day of warm to hot weather  
- last night was uncomfortable. HOT.  
1:28 pm dark for awhile - crickets in  
back & in front. There is also a long  
rasping, monotonous strigilation call  
in front which I have not heard before.  
It has cooled down considerably!
- 7 Oct. heavy fog early. Seeds from the cedar  
are pin-wheeling down & seem  
to reach 40' + to E from the tree.  
One squirrel feeding in Oak
- 8 Oct. fog & cool breeze same squirrels  
working over the Quercus agrifolia  
feels like a winter day



- 9 Oct, del Norte St, Berkeley, Alameda Co, CA  
fog till 1:30 pm. After high clouds,  
cool. A few oak moths out and  
crickets chirping at night.  
Usually things have been very  
quiet birdwise of late. Why?  
Today, no warblers in the elms  
5 H. finches in same elm but not  
coming down here.
- 11 Oct Went to Caliente yesterday - scattered  
clouds. Late afternoon - there = heard  
crows in distance & mockingbird singing  
for awhile. Drive back - home by 2 pm.  
Clear there; here high clouds to W and  
fast moving stringing thins from S  
going N over hills.
- 12 Oct. Low fog cloud till noon; clear  
some high clouds E to W at 3-4. Cool  
breeze = the young squirrels are  
feeding in oak again.
- 13 Oct 12:07 P fog This past week the  
elms are suddenly significantly more  
bare except for one directly across  
the street. The trees and ivy in yards are  
dirty from lack of rain. Also less bird  
activity - no more warblers.
- 15 Oct Clear after a.m. fog, cool breeze  
4 or 5 oak moths flying, squirrel in oak <sup>still</sup> feeding
- 23 Oct. Squirrels for several days, 1/4" rain this  
a.m. Oak moths still about
- at 4:30 pm it got darker and ~~it~~ it  
rained heavily .2 for 20 minutes  
patches of blue to N & W. The drops came  
straight down & were large. Then  
the cold front passed & clear by 5:30



Christman  
'87

Journal

6

Nov

11 ~~Oct.~~ del Norte St., Berkeley, Alameda Co., CA  
9:15 am. clear. A large dark hutes  
type flycatcher rather low, sailing NW.

12 Nov one circling - Turkey Vulture to S.

13 Nov. Rain in the night, a constant  
rain til about 9:30 a.m. then slow  
clearing rain = 65!

16 Nov. drizzle last night, everything wet,  
stopped at 8:30 am. cloudy (100%) all day -  
1-2 pm lots of bird activity 90% robins &  
waxwings. I have elderberries in fruit in  
backyard. also pyracantha new down.  
fox squirrel in very top of elm (w)  
up street - eating buds - ?

17 Nov. Rain began last night before  
midnight & continued until about  
noon - a steady, consistent light  
rain. out all day

18 Nov. 9:30 am clear except for a few  
whispy cumulus. a dark hutes sp.  
to NW fairly high, soared with no  
circles or flaps, direct.

1 pm most of day, cumuli, slight  
breeze, cool, some high clouds 10-20%  
cloud cover. No bird activity, nothing!  
no jays, no robins, no turkeys -

Probably this is a high pressure regime  
a few high clouds to NE.

what a difference from the <sup>16</sup>~~15~~<sup>th</sup>  
when there was so much activity!

19 Nov. scattered whisps of stratus till 1 pm  
then clear; 4- haze to W. The plane  
trees at North Berb. Lilvay are almost  
leafless, some variation in amount, several  
have new green leaves! less 5%



19 Nov

20 Nov. Train closed cover, out at 7:45

The pollen cones ( $2\frac{1}{2}'' \times \frac{1}{2}''$ ) from the atlas cedar have started to fall - in the wind yesterday and

21<sup>st</sup> Nov. Clear, sparkling in a.m. at dawn the doves feeding outside of the open window and a robin "chattering" down the street. Later accipiter (?) over - it flees (robin, i.e.). This perching in prominent trees by robins, jays, flickers makes sense - they have a good view & can detect an accipiter, etc. where as a predator has to come up on them.

9:40 a.m. - now a few small eddies of cumuli heading south! 11:02 a.m. a few fluffy cumuli to W in Marin, and over the hills to NW expanding slowly into swirling nothingness. The wind direction has not changed yet - another storm <sup>coming</sup>.



Christman  
1987

Journal

8.

- 21 Nov. del Norte st., Berkeley, Alameda Co., CA  
This high pressure! Clear, almost  
cold, still, a slight breeze at times, all  
is quiet except for a few people and  
walking in pairs or ~~to~~ singly running  
how bird activity is zero. 11:10 am a white  
butterfly flew past! No monarchs this  
past week +. 1:19 pm (57°F down-  
stairs & outside) more cumuli to S  
but holding together now. Bright  
sun. banks of cumuli to S & W.
- 22 Nov. out & down stairs all day -  
finished ("Vita" V. S-W) mainly clear  
with - 10% stratus & a few small  
cumuli. Doves early and cool.
- 23 Nov. Clear, cool in a.m. 9:20 am a band  
of white-gray stratus W-NW sloping  
down to the S; high on N. edge. The yellow  
leaves are gone now - just some dead  
brown ones, among the bare branches -  
individually gray; but the terminals with  
a sienna tint. 1+ The cloud cover  
past, clear at night full. -
- 24 Nov. at 9 am, stratus - maculosa clouds  
- thinly over the entire sky. By 11:30 am  
a band of gray stratus from the W. it is  
cool. Almost no bird activity besides  
doves very early and a quiet scrub jay  
diving into the thicker part of cedar.  
At 12 pm a band of heavy stratus come in  
from W-NW with clear behind; at 2 an over-  
cast of Cumulo-nimbus, colder & a breeze.
- 25 Nov. Clear, cold & clear  
comes before sun rise  
scrub jay called at first day light <sup>no</sup> <sup>re</sup> <sup>hins</sup> <sup>or</sup> <sup>call</sup>



Christman  
1997

Journal

9

- 25 Nov. del Norte St, Berkeley, Alameda Co, CA  
(to Palo Alto - two turkey Vultures over  
San Leandro area - one law)
- 27 Nov. Good to berob. cold & clear; clouds in  
by 3 - doves in at 4:50 = 4 individuals
- 28 Nov. clear all day no bird activity.
- 29 Nov. low cloud cover. about 7-7:30 am  
doves in & first robin singing. again a  
squirrel in center lines on top of elm up  
the street eating birds (?). There was  
a chase in cedar about 11:30 am, at  
least one was a juv.; the other? but  
think it was too. at least one tearing  
about canopy of the oaks - still trying  
to find small acorns?
- 30 Nov. light rain at dawn, doves in  
feeding, light wind making the trees.  
A flock of 35+ robins and cedar  
Waxwings flew N to S at 1:25 pm in  
a constant light rain. 6:50 pm rain  
stopped - total rainfall at 0.68
- 1 Dec. rain during night? = 0.20  
scattered low clouds, no more than 20  
% blue. A few short sprinkles -
- 2 Dec. 2.8" rain last night. Low clouds  
in a.m. One robin in top of elm.
- 3 Dec. 9:20 am clear with alto stratus &  
a few stray cumulus. a band of c-cumulus  
off to far west. 10-1:30 pm cumulus  
clouds low over hills, 75-80% cloud cover.  
Cordoneses Creek Park = turkey Vulture, law,  
white-crowns under shrubs.  
good breeze from S-SW.
- 4 Dec. heavy overcast, a few very light sprinkles.



Winston  
1987

Journal

10

- 4 Dec. del Norte St., Berkeley, Alameda Co., CALIF  
could see values (dark & light) of clouds  
9:40 a.m. consistent rain, no breeze  
(There was wind last night). with the  
rain a uniform gray cover. fairly  
heavy until 2:15 p.m. - now sprinkles.  
3:45 p.m. storm breaking up. areas of blue  
sky. A huge bank of clouds to SW - blue gray  
deep - with medium value pines & fluff -
- 5 Dec. rain began about 4 a.m. light, until  
9:30 & stopped - low hanging clouds now  
few sprinkles, began clearing at 2:15 p.m.  
Rain yesterday = .55; today = .19
- 6 Dec. windy last night, rain started  
5 a.m. - hardest so far this season, but  
not pouring - intermittent SW wind.  
rain stopped at 10; cloudy; - open at  
1:20 p.m. Rain = .94
- 7 Dec. Two quick thunder/lightning rain  
storms: 2 a.m. + and 4 a.m. plus the  
a.m. at 10 was clear, cool - everything  
wet & quiet. a thunderhead at Mt. Tamalpais  
The rain last night = .22  
10:45 a.m. the first high cirrus feathering.  
11:17 a.m. now a bank of thunderheads on the  
coastal hills in Marin Co - S.F.; rest thin high -  
1:22 p.m. complete cloud cover + cumulus about
- 8 Dec. started raining about 1 a.m. to 1:50 a.m.  
= .84. Complete cloud cover, all day.
- 9 Dec. rain started 4:05 a.m. - light,  
tapering off at 8:30 a.m. Light rain,  
low fog like clouds till dark. = .23  
at 4:10 p.m. mist down to top of cedar  
up the street - rain almost stopped.  
- on & off at night.



Westman  
1987

Journal

11

10 Dec. del Norte rd, Berkeley, Alameda Co., cal  
~~low cloudy & drizzle~~; at noon light  
rain as of 4 pm = .20"

11 Dec. clear (band of high clouds to S)  
and almost cold. Everything is wet.  
11 a.m. 54°F, a N breeze - light  
intermittent. Up street a house with  
rain puddle - two yellow breasted  
- throated small birds - ♂ gold finches  
or a warbler - ? very brief sighting  
4:26 pm. Clear, very slight breeze -  
much activity today esp. towhees,  
warblers & the flickers. only 2 or 3 robins.  
Band of high clouds to NW.

12 Dec. wind came up during the  
night. Clear, strong N wind,  
things drying out. Here no cedar  
waxw. or robins - saw 1/2 doz.  
robins 1/2 mi. away. Very quiet for birds.

13 Dec. clear, cold, windy. The last  
2 or 3 days gulls flying over to NW;  
9 at 9:48 am off & on all day gulls to NW

14 Dec. 90 - 50% cloud cover - high  
no wind, cold. 9 (+?) doves at 6:50  
am. Last week I saw 3 fox  
squirrels in the oak. Have not seen  
the 2 3/4 grown juvs. lately. Temp = 50°F  
1:20 pm thin high clouds.

15 Dec. complete cloud cover at dawn  
light rain by 9:30 a.m. 10:25 am a few  
robins flying to E., one landed in top of  
~~cedar~~ up street. one flock of 20 waxwings  
very erratic flight. 10:40 wind coming up,  
rain real light. 2:30 pm cold rain with  
some wind



Christman  
1987

Journal

12

- 15 Dec. del Norte St., Berkeley, Alameda Co., CA  
Eight small clusters of new leaves  
at end of branches in *Q. agrifolia*,  
5-9 bright green leaves each in  
NE & N part of canopy.
- 16 Dec. Rain & COLD before dawn, not  
heavy, tapered off at 10: a.m. at noon  $48^{\circ}\text{F}$ .  
2:30 p.m. windy, colder, showers,  
not heavy. Only a few small flights  
of robins & waxwings; doves & turkeys.  
Temperatures are in kitchen patio; at  
3:35 p.m. =  $46^{\circ}\text{F}$
- 17 Dec.  $44^{\circ}\text{F}$ , clear, no wind. 9:03 a.m.  
one Fox squirrel on ledge and 3 in the  
atlas cedar new door - one chasing  
another up trunk and down again. -  
Is there a winter breeding period?  
One Fox squirrel for one hr has  
been sunning - back against the  
main trunk on a limb in sun facing  
E. ~~at~~ (10 a.m.) tail up against. 4:08 p.m.  
a squirrel feeding on buds (?) in top  
of Elm up the street - 5' from top!
- 18 Dec. at 7:50 a.m. a few high clouds, by 9 low  
clouds hanging in fast, to complete cover.  
11:20 a.m. fog (?) breaking up, high wispy  
clouds - little bird activity. By 2 p.m.  
complete cloud cover - low  $53^{\circ}\text{F}$  at 2:37 p.m.  
Light rain some time after 6 p.m.
- 19 Dec. clear, cool, a very slight breeze.  
1:00 p.m. breeze at times, only several robins  
nothing else!  $55^{\circ}\text{F}$ . 4:11 p.m. mares' tails  
out of W. all together a dull, cool day, painted  
sunny, but saw the cotary of doves, several  
turkeys, the squirrels didn't come by, but robins sang in a.m.



Christman  
1987

Journal

13

- 20 Dec., del Norte St, Berkeley, Alameda Co., Calif  
8:30 am clear, except for a band of thin clouds on W horizon; breakfast that band of clouds is overhead - high cirrus preceeding it. 2:30 pm mockbird song; 54°F
- 21 Dec. Fog, cool. 2:04 pm fog squirrel feeding in top of elm - first to S. this side of the street, 8' from top. drizzle at 4:50 & heavy drizzle - fog at 8:15 pm
- 22 Dec. overcast, cool at 7:30 a.m. with a thin band of blue to W. By 9 a.m. clearing, 85% clear, N wind. The landing was wet from drizzle last night. We have not had a real storm with heavy rain yet this year.  
11:22 am heavy cumulus clouds getting high in the Marin Cobles & N. By 1:11 pm these clouds dispersed. Fluffy cumulus overhead going S - SE. Windy <sup>last night</sup> 26 rain
- 23 Dec. clear, cool, a bit windy.
- 26 Dec. return from Palo Alto, 1:13 pm  
50°F. in P.A. 25<sup>th</sup> 3 ~~Three~~ Vultures low over neighborhood. Today - Hayward = 2 singles; Oakland hills = 2 = 4  
T.V. are winter residents! Clear, cool.
- 27 Dec. 8:30 am cloud cover & a brief light sprinkle. Very light rain until 7:30 pm then slightly heavier. light rain at night
- 28 Dec. Scattered heavy clouds including large thunderheads to W. scattered showers  
12 mid night + between rain showers a short, mellow "who" repeated in slow cadence, not sharp or harsh, not very loud. did not gain speed, not like screech owls I have heard

rainbow =  
red on outside  
blue inside  
of arc

Christman  
37-88

Journal

14

- 28 Dec. del Norte St., Berkeley, Alameda Co., CA  
rain up to this evening at 6 pm (.96)
- 29 Dec. Rain at night, at times rather  
hard (perhaps harder than for this  
season), sprinkles this ~~evening~~<sup>a.m.</sup> at  
11 a.m. = .59 of rain. Clear to 5 W = 4:00<sup>pm</sup>
- 30 Dec. Clear, slight the variable winds  
from N. a few high stringy clouds to S  
puffy small cumulus overhead &  
haub of clouds thru Golden Gate.  
overall 50's
- 31 Dec 90% fog at 8 am, cleared back to  
90% blue sky at 10 a.m. huge haub of  
fog over hills to E. almost cold. Noon  
high clouds to SW. cold. by 1:45 pm high  
clouds as a band SW to, almost, NW,  
a new breeze. No birds other than 4 doves  
at 7:30 & the treebees-
- 1 Jan. 1988 5 wind overnight. Overcast  
sun filtering thru at 9:30 a.m. 11:13 a.m. lower  
overcast, cold, stronger breeze, variable  
direction. This is reputed to be a weak storm  
but the wind! Blew from N and S.
- 2 Jan. rained lightly 5 am  $\pm$  = .12" cloud  
cover, cool. at 1:50 pm 46°F and strong  
N wind, most of pm major branches tossed  
4:12 pm more, heavier wind, Rain by 6:30 pm
- 3 Jan. light rain until 10 a.m., overcast,  
at 3 pm .56" of rain, not so cool.
- 4 Jan rain at night & into a.m. not so cool  
The wind died out after 4 a.m. No wind at  
11:30 a.m. at noon = .59" rain <sup>tapered off</sup> by 4:30 pm
- 5 Jan. low fog, no rain - very wet. Scattered clouds  
80% cover. after noon broken cumulus & a few  
sprinkles of huge, wet and cold rain drops



Christman  
'88

Journal

15

- 6 Jan., ~~del Norte St., Berkeley, Alameda Co., Calif.~~  
fog at 9 am, by noon 50% fog & rest  
blue sky slightly warmer. 1:06 pm couple  
high cloud cover with light wispy fog.
- 7 Jan. Fog, opened a bit at 10 ± - heaviest  
to the W & then closed down again.  
noon - high clouds / spotty fog, some  
sun. from 2 pm on ± low fluffy  
nimbi sailing SW past my window.  
Rain started at 4:19 pm, by 11:30 = .19"
- 8 Jan. overcast, comfortable, no wind,  
no rain, no birds. light sprinkle at 4:05 pm
- 9 Jan. overcast; 56°F. = (T) of rain
- 10 Jan 9 am low mirky foggy. noon passing  
high fog from W & high clouds above.  
afternoon - variable clouds 60% sun to 10%
- 11 Jan. (light rain - mist last night) clear  
at 7 a.m. cool, no wind. by 11 a.m. a few  
high clouds W-NW.
- 12 Jan clear, cool, no wind. a few high  
clouds at noon; 3 pm 80% high cover  
cedar waxwings & robins in slurs to SW  
feeding somewhere to S. lots of activity
- 13 Jan cool & clear, no wind. Banks of fog  
or clouds to NW to SW. Cedar waxw &  
robins in neighborhood; this is mass  
bird activity in weeks. 10:15 am high  
clouds overhead to SW to N. Filtered sun  
at 10:50 a.m. The first starling dive  
seen in neighborhood. 12:30 pm -  
no more cedar waxwings or robins -  
all gone. only one dove in slurs.
- 9:30  
am ±



Christman  
1988

Journal

16

- 14 Jan. del Norte rd, Berkeley, Alameda Co, CA  
scattered clouds at various levels.  
by 9:30 am. general overcast no bird activity.
- 15 Jan. rain during the night - started  
about midnight. rainfall - .55  
Overcast in forenoon, comfortable  
Miss bands of robins with 4 with 1st  
water wings.
- 16 Jan. Heavy rain last night 12 - 8:30 am  
= .47". broke up at 9:30 to scattered  
cumuli. Just before 10 went for walk  
around block at N. end of upper Elms  
ave; scrub jay & towhee (3.) & mocking  
bird in yards that were open with 6'  
shrubs, etc. Stellar jay in small grove  
of redwoods & firs. One yard had  
a tangle of vines & shrubs - English  
sparrow & white-crown sp. singing  
and a Raven flew over head.
- 17 Jan. Rain started about 11 pm & continued  
rather consistently, medium, somewhat  
Rain stopped about 3 pm, but no clearing -  
Rainfall 1.03"
- 18 Jan. scattered clouds, cold. clouds from  
NW till about 3 then from W; clear at dusk.
- 19 Jan clear, cool, slight breeze. at 2:30 pm  
a band of high clouds to W; at 3:40 overhead  
busy almost all day -
- 20 Jan clear all day, almost warm in afternoon
- 21 Jan. clear, 10 am., few high clouds from NW  
very high pressure 2:59 pm squirrel in  
hale w. elm - 6' from top canopy - 60' + high.  
4:22 still in SW elm & another in elms up street  
half way up from SW trees to N tree. Two months  
of winter yet! This weather - precursor of spring



Christman  
1988

Journal

17

22 Jan., del Norte St., Berkeley, Alameda Co., CA  
Heavy wind last night. Clear now  
except strings of very high clouds - (5%  
almost none). 2pm almost a complete  
thin overcast of high clouds. So far this has  
been a fairly quiet day. No flocks of robins  
(just singles) or wax wings.

23 Jan a.m. = a few high clouds and haze on  
the horizon.

\* 25 Jan (in P.A. yesterday & today till 3 PM)  
Clear warm - into 70's in Palo Alto  
a few high clouds & haze in South Bay  
4:10pm squirrel feeding on elm buds  
in top of - up the street.

26 Jan. very diffuse sun with high clouds  
There are shadows and cool.  
see notes on elm trees - buds opening  
will be goldfinch time soon!  
Buds are out on almond tree w of  
house & one cluster of the first flowers  
continued all day. By 4+ some almost  
high cumulus clouds - didn't warm up <sup>much</sup>.  
Squirrel still eating elm buds up the street.

27 Jan. high clouds - to MVT 8 a.m. to 1:30 p.m.

3:pm clouds thicker 67°F very quiet.

4pm up the street squirrel feeding on  
newly opened buds of elm 30' from terminal  
branch - must be 1/4" diam branch but holding  
on to at least 2 branches. Does this show  
winter - save off starvation food? No  
feeding in oak by squirrels of late the  
same "clippings" have been seen. <sup>4:14</sup>Two  
squirrels up the street. <sup>4:19</sup>squirrel feeding  
in top of elm this side of St. to W. 5' from top

\* in Palo Alto, Anne's yard - a painted lady butterfly



Christman  
1989

# Journal

18

28 Jan., del Norte St., Berkeley, Alameda Co., Calif.  
~~overcast, little breeze, about 60°F, a few~~  
robins flying about. 2 Squirrels feeding high  
in the elms

29 Jan. Rain during the night. Several showers  
in the a.m. continuous cloud cover.

11:30 a.m. now a general rain, some  
breeze. Both jays & doves with some calls.  
Rain at noon = .88" 1:37 p.m. has been  
getting darker - now raining again. This  
is one pulse of rain after another - this  
one is hardest so far today. 2:12 p.m. rain  
let up & lighter - uniform clouds. 3:40 p.m.  
still light rain, but heavy clouds with a  
path of blue to W - clouds moving fast. 4:30  
discrete clouds (cumuli) moving fast to NWE  
4:50 p.m. squirrel feeding in tree across the st.  
1' from terminal. Overcast again. Rain = 1.05"

30 Jan. Clear, by 9 a.m. high clouds from S  
about 35% cloud cover, not at all thick.  
noon = fewer high clouds; activity level  
has been low this a.m. Much of day a  
squirrel has been feeding in elms up the st.  
4:30 Cumulus to N & high C. hands to S.

Very few robins today 4 in the past 1/2 hr. 4:55 p.m.  
3 flew to SE high over a high pressure day no  
activity

31 Jan. clear, cool. 1 Squirrel in NW elm first  
investigated the pile of dead leaves - branches;  
then 15 min. later it disappeared into it(?)  
is this a squirrel nest? 12:30 p.m. two  
squirrels out of this "nest". Big line of  
cumulus clouds off to W and NW.

1 Feb. clear in a.m. band of clouds to the S & SW  
Small puffy cumulus clouds overhead.



Quistman  
1988

Journal

18A

31 Jan. Visit to Hans Pesters at Sausal  
Alameda Co., Calif. One hr. drive  
from Berkeley. He lives  $1\frac{1}{2}$  mi. N of  
village of Sausal on Kilkare Road.  
address at box #1050 on W. side of  
Creek. a large white house, 2 stories  
against a hillside, grassy orchard in  
front. Bedrooms down stairs, a deck  
& "L" shaped upstairs. a long living  
room, beamed ceiling, fire place and  
W wall is rock. A refractory table  
- really old. His pictures - large oils &  
acrylics everywhere, old wood prints -  
kitchen - breakfast nook - the latter is  
library - shelf and collection of Caudin-  
fau succulents. A table was doing  
a Mt. Quail in acrylic also a small  
studio in back against wall - pat belled  
stove. An eagle (golden) on an easel.  
No organization in the studio & as  
simple as possible. Old furniture, small  
bundles of feathers - hawks, owls, eagles,  
ducks. He played "guess-it" with all kinds  
of mammal skulls, plants & feathers. an  
area in back area for his 2nd yr. Peregrine  
(it was in a wire enclosure in front  
yard when I arrived at 3:02 pm) it is  
part placii very dark. Game photos. Went  
in his old VW with Pereg. over to Vallecitas Rd, to E  
a mile or so, & turn, then a locked gate onto rd  
to W. a short distance, W. turn up hill - some  
small steep ponds - ducks - including & hooded  
Mergansers, wood ducks - W. yellowlegs. on top a  
hill & golden Eagle of tower of power lines. On  
to a reservoir - almost dry to E across head



Mustn't  
1988

Journal (Visit with  
News Peeters)

18B

31 Jan. Sunol, Alameda Co., Calif. afternoon  
Lots of talk, as we crossed head of the  
reservoir (San Antonio<sup>?</sup> Res) Many big  
cumulus clouds, dramatic lighting,  
with deep shadows and vivid bright  
green sunlit hills. Most of this area  
is several private ranches with Angus  
- Zebu type cattle. at top end of dried lake  
some huge sycamores - hills mainly  
bare of trees & overgrazed. Many  
Citellus beecheyi - grass only several  
inches high. H-P: many eagles here.  
went up for a in road to another reservoir  
- small - almost dark. Flew the falcon,  
very dramatic, high-low, flew past  
me & about me. Saw a very dark bird,  
thought it was a Gt. Blue Heron without  
my glasses - it was a 2nd year Bald  
Eagle! A nesting pair in hills to SE.  
On way back: several herring  
gulls - flying low along road in almost  
a fluttering flight. Also a coyote  
ran down a fence saw at a crest of a  
hill. Dinner with H-P and wife =  
cut-up beef.



Christensen  
1998

Journal

19

- 1 Feb, del Norte St., Berkeley, Alameda Co., Calif.  
4:05 pm more & larger cumuli. a squirrel  
has been working in elms all day & now  
one is high in elm across st. to W. One Fox S.  
following another in elm to SW - trying  
to mount? & both on same limb into  
the Eugenia tree is there a nest there?
- 2 Feb. Clear, cold. 4:00 pm 2 Fox S. in  
tops of elms up the st. 4:50 pm doves & turkeys  
and Song sparrows in feeding. Goshawk calling.
- 3 Feb Clear all day, frost on grass at 7 am
- 4 Feb clear & cold. at 10:30 am a NE breeze  
with a bit to it. Clear cool no breeze in afternoon
- 5 Feb 10 am clear cool some high clouds  
to W. 3:10 pm entire SW sky overcast,  
filmy high clouds to NE. no wind.  
2 Fox S. in elm up street; one across st in elm <sup>at 4:45</sup> Pe
- 6 Feb. Clear, cool - a few high clouds  
especially to the west { there are 3  
Fox S. = Fox Squirrel - consistently -  
I do & think the population is same as  
the summer - 2 adults and 2 imm.
- 60°) 3:00 pm long filmy high clouds. Not very warm
- 7 Feb 6:29 am jay calling & robin singing  
from down the street - SW. Clear, some  
frost about early. easily trapped the  
macho Fox Squirrel - ♂ at 10 am let it  
loose in John Kinkle park 1/3 mi. away to  
NW. - a squirrel size Havahart trap.  
12 noon - 13 gulls circling high to NW.  
when I came back from the drive one of  
the yearling squirrels was on landing  
& went 15' down power line & into Pittosporum.



Christman  
1998

Journal

20

7 Feb., del Norte St., Berkeley, Alameda Co., CA  
3:30 pm a nice spring day - in low  
60°F. no breeze. 2 squirrels feeding  
in elm across st. to W.

8 Feb. clear, hazy about the edges. I  
have seen no squirrels this a.m. The  
pyracantha up the street between side  
walk & st. still loaded with red berries  
a few high clouds W-N. a very cool day.  
2:42 pm Fox S. feeding high in elm across  
street. Since trapping a noticeable  
diminution of squirrel activity in  
general & on landing specifically (except  
for late juv. immediately after  
which was noticed.) None seen up the  
street today. after 3 hazy to W only  
whiffs of high clouds.

9 Feb. by 8:30 am a low thick fog was  
breaking up overhead - fog had wintered.  
at 9:30 on Solano Ave fog back in low  
but 75% open above. at House at 10 am  
clear, cool. Washington hand tail model.

Yesterday I put out 2 handfulls of large  
Sunflower seeds out the studio window.  
They measure 15 mm x 10 mm x 4 mm. The  
Fox Squirrels especially like these but  
apparently few birds do - too big?  
I used these big ones to bait in the Fox S. &  
trapped. So far I haven't seen the Jays  
cart off loads of them.

4:30 pm Fox S. in NW elm - out of that oak

10 Feb. 9:41 pm clear, a good breeze from N(?)

10:27 am a Fox S. on N part of ledge - the end  
of its tail was very ratty it saw me - I gave  
no reaction it went down the power line &



Christman  
1988

Journal

21

10 Feb. ~~del Norte St, Berkeley, Alameda Co, CA~~  
and went into ~~Pittosporum~~. Several  
<sup>(4-7)</sup> small groups of gulls flying low to N  
& disappeared - no seeing the  
breeze has died down a bit. 15 minutes  
later the Fox S was back - same  
reaction - is this the same squirrel  
that I trapped? 12:15 breeze from N  
and temp. in kitchen patio is 70°F  
+ bought new bag of SAFEWAY WILDBIRD MIX

5:15 pm Fox S. in elm 2nd up on W.

11 Feb. clear, a good stiff wind out of the  
NE. Open flocks & individual robins  
flying about, as well as in tops of tall  
trees! Open flocks of waxwings. a scrub  
jay in briefly. Bright green flowers (?)  
on some branches on elm across St to  
the W. Fox S in top of this tree also. 12:49 pm  
a hawk flew by low to W - a cooper? .  
it was slow & robins up the St. dispersed  
low - hawk continues between tall trees  
to NW. One white butterfly

12 Feb clear, cool, no wind, very hazy in  
afternoon.

13 Feb. clear, still & chilly. Only one jay, quiet  
a.m. 8 am caught one of the younger  
Fox S. & released it at N. Berk Library  
1/4 mile + away. 9:45 am one Fox S in elm  
across the St to W. Was the Fox S I captured  
the one that has been up the street in  
the elms? 10:30 am a Fox S in N elm (S part  
half way up in green part). 11:06 a white  
butterfly. 12:15 Fox S in W elm



Christman  
1988

Journal

22

- 14 Feb., del Norte St., Berkeley, Alameda Co, CA  
Clear, no wind, slightly warmer 1:55 pm  
Fox & S in W. elm this a.m. I checked - there  
is a 10'-15' gap between the W side of the  
NW elm - telephone pole & lines and the  
W. elm in front of the house (and across  
the street. This means a Fox & S. in the  
N.W. elm has to come to my yard to  
get to house - thru the almond tree  
to house to W (Lessel's) & into this  
cedar to front oak & the W. elms.
- 15 Feb Thin high clouds in each quarter.  
Fox & S = 2 on branches 6" ± next to trunk  
in the cedar (SW), at 8:48 am. Haven't  
seen the one in elms up the St. in several  
days. No high clouds in afternoon - a little hazy.
- 16 Feb clear, cool breeze from N., some gusts  
bend tops of trees! A few small flocks of  
robins & waxwings flying. A few doves &  
pair of house finches.
- 17 Feb. Clear, except high clouds to NW which  
passed over by 10 am. Cooler today, no  
breeze. 4:30 pm high clouds S-W-N & looks  
like fog off coast. 68°F; hat cooking.  
No hand tails
- 18 Feb. Clear, cool, windy.
- 19 Feb clear, cool no wind 1:04 pm no robins,  
no waxwings, towhees tho. Fox & S up the street  
in elms - the first I've seen since the  
trapping. 1:08 one in top of W elm across the St.  
and first elm up St. across St. - two on main  
trunk. I was pissed off at these animals because  
they were so aggressive in eating bird seed in the  
fall - they could hardly be scared off. They are  
ob. though at a distance.



Christman  
1988

Journal

23

20 Feb., del Norte St., Berkeley, Alameda Co., Calif.  
9 am clear, not cool, clouds on W horizon  
10:10 am no more robins, one dove in -  
very quiet, even B. towhees inactive. high  
whispy clouds to W & NW. Fox S. up street -  
coming down from medium height. 10:18 am  
a breeze - many dead leaves falling  
from oak. 3:37 great streamers of high clouds

21 Feb. high clouds and hazy, cool. a scrub  
jay landed on periphery branch of oak &  
leaves fell. After 11 am long strings of  
high clouds passed from S to N  
across my western view - thicker in  
the late afternoon. 4:32 Fox Squirrel in  
W elm feeding on elm fruits.

22 Feb. Fog - the break in the weather - a  
high pressure area has been solidly in  
place for weeks now - hopefully, will  
have some more rain! 12:30 pm the  
fog left about 10:30 am. High clouds, still  
cool, but a different 'feel' to the breeze  
from the SW. Some loose dove feathers  
on landing: see dove and sharpshinned  
hawk - 4:12 pm cloud cover: 50% the high  
clouds have coalesced & thicker, slight breeze -  
4:30 clouds thickening to SW, sun is diffuse  
The almond tree immediately SW of the house  
has been in blossom for a week & in  
new leaf for a week. The plum trees are  
out in pink flowers for weeks.

23 Feb. Fog, more dead leaves on oak - nearly  
half. by 11 the sun out, but hazy with high  
clouds. 3:30 pm more diverse types of clouds,  
more diffuse sun. By 4 fog started forming to  
a general cover with the sun filtering thru



Christman  
1988

Journal

24

23 Feb., del Norte St., Berkeley, Alameda Co., CA  
There is so damn much noise in this neighborhood! Cars first, second sirens F.D. & P.D.; the people next door with a leaf blower. My hearing is not impaired but one hears just so much.

24 Feb. Fog, cool, at 12 very hazy clear  
Painted most of day. 4:05 11 wainings,  
2 doves, 5 robins in top (doves highest,  
then robins) of W. Elm.

25 Feb. Foggy, sun out by 10:30 am -  
hazy sun. noon filtered sun, high  
clouds. 1:30 clouds thicker, but not darker -  
very diffuse shadows. 3:33 pm clouds  
lower and darker - and 2 Fox S in oak -  
none at landing to day. 4:42 storm  
coming in?

26 Feb. High clouds - variable amount of  
blue, very comfortable - first for long  
time. The tube feeder up on Las  
Angeles St (S. side of St. & house - top floor  
under roof) is empty. This house was  
tena cotta & they painted it off white with  
brown & blue trim - and has been for  
sale. 11:15 a good breeze came up - it  
has been quiet. Leaves on oak falling.  
12: sudden cooler & variable breezes  
1:01 pm fewer high clouds as earlier, now  
high mists, cool, but pleasant 66° F.  
4:28 pm darker clouds, a few patches of blue.  
27 Feb. light rain early this a.m. - things  
wet and overcast. Pyracantha still in  
red berries up the St.

27 Feb. ~~Made~~ - returned home from Palo Alto at noon.  
Left 27 Feb about noon.



Mustman  
1988

Journal

25

- 29 Feb. ~~Mar.~~ + ~~Mar.~~, del Norte st., Berkeley, Alameda Co., Cal.  
The last two days have been variable clouds - mainly cumulus & some huge thunderheads. Sat. night (27th) some thunder & lightning and some heavy, brief showers. Light rain this a.m. in Palo Alto. Now, at 12:54 pm overcast cumulus with some sun. No robins, no other birds after 9-9 hawk/goldfinch event.
- 1 Mar. at 7 am light rain. breaking up of clouds - some blue at 9 a.m. Some wind. Anne gave me a 2 compartment feeder - it has no perches. Rain - over weekend & last night = .56"  
9:58 am clear except for several fluffy cumuli building over hills to NW.  
Variable clouds, N wind, coolish. 3:30 pm  
Fox & Squirrel in NW elm
- 2 Mar. clear, quiet. The Plane trees - on Marin st & about library are 15% out in leaf. The double row of elms on Hopkins st (off Grove st to Sutter) are bare, except for 5 which are in fruit - and only two as extensively as NW elm here. Several bands of high clouds N to S to the W. late pm clear
- 3 Mar. Yesterday clear; today - clear some high clouds to W. Noon - high cloud overcast, cool around edges. 12:45 pm 2 Fox & Sq. feeding on samaras in NW elm a yard apart.
- 4 Mar. overcast - fog? Noon - still overcast seems like fog for there are tiny breaks - a slight breeze. Activity is almost entirely with goldfinches. For weeks the street and side walks have been strewn with samaras



Christman  
1988

Journal

26

- 4 Mar., del Norte St., Berkeley, Alameda Co., CA  
both singly & entire clusters. Fox Sq  
in S part, low; in NW elm - entire clusters  
fall from limb. (2 Fox Sq. in that elm)  
The fog opened about 1:30 - there are  
some wispy high clouds between the  
breaks of the fog - the ~~at~~ sun shines  
through. 4:23 broad overcast high & lower  
fluffy stuff darker - I don't think it's fog.
- 5 Mar. overcast, medium drizzle. a nice  
quiet (except for a brief robin dawn song)  
soft morning. Sun out at 1 pm though  
still 90% fog. 4:25 pm most of fog blew  
E. strings of high clouds & haze to W.
- 7 Mar. high clouds but essentially clear  
cool - 58°F at noon.
- 8 Mar. clear, almost comfortable. 1 Fox Sq. in NW  
elm - clusters of samaras are falling.
- 9 Mar. clear, a few wispy high clouds, 58°F at 10  
am. rather quiet. Feeding at the landing  
is now shrews & Kr. towhees. Have  
not seen house finches lately. Feeding  
hushtits is over. Fox Sq from W elm into oaks -  
was one in NW elm.
- 12 Mar. Samaras falling (even in the back patio)  
First cluster of leaves out in top of W elm  
across the St. Clear most of day, a few high  
clouds. Fox Sq. in NW elm; this a.m. Saw it  
jump from top of utility pole to S part of  
same tree - at least 10'.
- 14 Mar. got up at 5:30 am, shaved & at  
my desk - 6:17 a.m. a bat flew over!  
Negatis sings - over top of W elm. 6:30 full  
light - fog overcast. 8 am clear tho cool.  
10:45 am Fox Sq in oaks - feeding on flowers?



Christman  
1958

Journal

27

- 15 Mar. del Norte St., Berkeley, Alameda Co., Calif.  
8:22 am scattered fog, cool. One (the  
short tailed - ad ♀?) in feeding on  
large sunflower seeds; another, or  
yearling(?) in NW elm feeding on the  
dying samaras.
- 16 Mar. Pittosporum at NW side of house  
seems to have lost its opened orange  
fruit and - especially the E tree is  
out in white flowers! 3:34 pm 62° F.  
Clear all day - almost spring like  
The apple tree is beginning to bud out
- 17 Mar. fog dispersed 9:30 nice spring  
day. More leaves out on those elm  
ends of limbs - E & N sides.
- 18 Mar. Clear (fog in bay heard fog horns)  
Dawn song = 5:28 am 8:15 am Fox Sq in  
NW elm eating samaras - ~~on~~ road under  
this area is littered by dropped samaras  
11:am 60° F quiet - rather hazy about  
edges, slight breeze -
- 19 Mar. Clear same high thin clouds to W-NW  
at 11:15 am a large flock of gulls high  
to NW circling & getting higher & moving  
N and to NE. Migrating inland. 1:30 pm  
bit hazy with high clouds to W from S to N.  
2:12 pm more high clouds.
- 20 Mar. clear, mild first *Tupulidae* adult  
10:10 am feeding: 2 doves, 1 Br. Towhee, & ♂  
(came in first from Pittos.) & ♀ House finch -  
feeding on floor; "Sun - is" coll.  
first spring day. 2 Fox Sq in oak, active, at 6 pm
- 21 Mar. High clouds & patchy fragmented nimbus  
from SW to E. cool - patches of sun  
These clouds passed, almost clear before



Christman  
1988

Journal

28

21 Mar. ~~at North St. Berkeley Alameda Co. CA~~  
now high filmy clouds, a bit warmer  
4:04 pm, Fox Sq. has been foraging in E part  
high in the oak. what is it eating? - pretty  
well obscured. 4:34 pm Fox Sq. now up  
trunk in w. elm. a breeze: samaras are  
softly flating east from the two elms.  
still there are few goldfinches, trilling  
& a weak song.

22 Mar. Clear except for bands of mid  
level clouds 15-25% cover. comfortable  
This is a quiet season the land species  
are not! Clear at noon; band of  
clouds to W. at 3:30 pm with a slight  
breeze - a very quiet day in every way.  
4:07 pm Suddenly from N to S bands and  
isolated clumps of minibus clouds from  
NW. The quality of the air has changed.  
4:31 pm clouds moving to E. The western  
horizon is very dark. Six flowers on the  
apple tree. Saw waxwing flock 2 hrs. N.

23 Mar. cloudy ledge etc slightly damp from  
drizzle The two Fox Sq. in at landing. #1 I  
think was a young one last fall & feeds in  
elm up st, etc. #2 comes down the middle  
drain pipe & is usually in oak or w. elm. Both  
are looking very ratty with rough spots on  
rillage - molt - ? #2 is missing part of tail  
- distal ? 9:45 am great Fox Sq. chase  
across the landing. Clear briefly then  
cumulus clouds - 4:46 pm clear, breeze  
& a Fox Sq. feeding in oak (E. side)

24 Mar. Clear all day all pines have new leader branches

25 Mar. Clear. 1:51 pm Fox Sq. feeding near top of oak

26 Mar. Clear, warm 8:45 pm 5 song



Christman  
1988

Journal

29

26 Mar. del Norte St., Berkeley, Alameda Co., Calif.  
tailed parrots flying down Salano  
ave. squaking loudly. Going to be  
a hot day - up into  $70\frac{1}{2}^{\circ}\text{F}$ .

27 Mar. Clear, windy cooler, in mid  $60^{\circ}\text{F}$  pm

28 Mar. Clear, still windy (N) and cool.  
Elms in front - in "aspect" are 50% leafed  
out. On Fresno St. near Salano many  
elms still pale green in samaras. The  
has died down somewhat. Low  $70^{\circ}\text{F}$  at  
on Salano ave.

29 Mar. Clear, little wind. haze on horizon

The apple tree is  $\frac{1}{2}$  fully out in leaf  
& even less in flower. Pittos has a few  
white flowers. There have been a number  
\* of small birds flying from N into & out  
of the oak. Some were c-b. chickadees  
and due to thick foliage can't identify  
- bush-tits? frequent trips = feeding  
young. There are far fewer birds  
feeding on ledge now than formerly  
esp. tan herons fewer trips. Doves have  
reduced down to several pairs - no  
jays, just odd hawks. after noon high  
thin clouds. 4:30 high clouds thicker to w &  
more of a breeze.

30 Mar. Clear, cool, N wind. noon heavy  
gusts with entire branches moving.  
noon - Fox Sq. I think the short tailed one  
has bare spots on sides of shoulders  
to skin a year & a half ago one had  
bare tail & bare & rump - it disappeared  
along with several imm. - was & is  
this a contagious mange?




Bristow  
1998

Journal

30

31 Mar., ~~del Norte St. Berkeley, Alameda Co., Calif.~~  
clear, cool, N wind.

1 Apr. Clear, warm, no wind. noon-high clouds in bands to WNW. 1:30 pm the first monarch butterfly flew over house & between trees to NW. Fox Sq. spent some time in late pm in the oak. here "clippings of oak twigs on the steps - 4-6" with leaves - found

2 Apr. Clear, slight breeze; a few bands of high clouds W-NW and a good chunk of horizon (up) is hazy with high clouds. coolish. here I wake up at about 4:30 am brightly - a nearly full moon! and robins were singing - it was bright as dawn!  DAYLIGHT SAVING TIME

3 Apr. fog, cool early it seemed several layered 10 am heavy 4:30 up hill. 1 pm still foggy a bit of a breeze. Fox & Sq. in oak on exposed side of edge of canopy - eating the dried flower catkins of the oak. great rafts of dark fog are drifting NE and the tops of the trees waving in the breeze - light. Fox & Sq. in W. elm across st. du st. are a number of small 3"  $\pm$  branches of elms with new leaves. 6:43 pm fog getting lower - a very quiet day. 7:30 drizzle Fog all day

4 Apr. clear, ~~to~~ mid 50's 50°F house cold. 10:45 high clouds off to W-NW. 2:45 pm a small light colored butterfly or moth about top of the oak - an oak moth? 4:55 pm a great Fox & Sq. chase down trunks of near W elm. I still think this (only 2 of 4 left) is mother & son!

5 Apr. clear, occasional gusts of wind noon - suddenly a breeze & a raft of apple tree petals blowing about. also a few raindrops flash.



Whistman  
1988

Journal

31

5 Apr., del Norte St., Berkeley, Alameda Co., Cal  
about - few if any in near trees - where  
from? 7:20 pm Sun, a few degrees above  
the w. horizon. Very quiet out there  
no calls, no movement.

6 Apr. up early, clear, cool high clouds to E  
around to S & SW. 8:35 am one in NW elm -  
high & one at house - <sup>scrub</sup> - Jay. High clouds much  
more extensive. Fox Squirrel the smaller  
one with a thin furled tail is a ♂ with  
enlarged scrotum. [6:52 pm a bit thicker  
high or medium level clouds, cooler.

1 pm wind coming up. 1:20 pm a new  
Fox squirrel - a large (♂?) with good pelage  
and good tail. Is this the ♂ I moved out  
to ~~the~~ palm double park? Clear, bright  
with increasing wind after 3 pm.

8 Apr. Clear with a few high clouds to, coolish  
& occasional winds same gusty. 1 pm.

$\frac{2}{3}$  of w. is covered by great bands of rather  
thick high clouds; light breeze. Fox Sq -  
two came in to feed today - a large ad.  
in good shape - a ♂? And a smaller  
one - the first year one? at 4:05  
pm one in W. oak 8' from top - seems  
to be manipulating leaves or branches.  
Also in afternoon something got at  
my sack of bird seed on front porch  
& gnawed holes & spilled out food  
(Audubon mix) & ate lots of sun  
flower seed. 4:45 pm This has been a  
quiet day. Starting to organize these notes  
& write things up. 4:50 one flying high to  
NE elm - on top. 6:45 clear, calm at this  
time with a haze to w., just a few high clouds.



Christman  
1988

Journal

32

9 Apr., del Norte St., Berkeley, Alameda Co., Calif.  
clear, breeze, warm, early. At 10 am  
76° F in shaded patio. 58° F in bedroom

10:47 am strong wind 2:25 pm Fox Sq. very thin,  
very "ratty" pelage & little hair on end of tail  
- is this the short tailed one. No hare spots in  
the fur. 2<sup>nd</sup> another Fox Sq. larger, longer  
tail, thin, fur not as ratty & large scrotum.

2 tipulids in house today - no infestation

10 Apr. clear, no wind, lots of high clouds to  
S & W. Record temperatures about  
hay area - hot after dark

11 Apr. clear, going to be a hot day, no  
high clouds. The last several weeks:

The only consist user of the saweay  
mix & throw out are Fox Sq. and

\* | especially mammie doves. No one  
has come to the hanging feeder since  
I repaired it & re-hung it.

No rain since early Feb. it's a drought

\* | year. How will effect the avifauna?  
This is not a typical year. How will  
the insect food hold out?

1:50 pm a light breeze - Gilliam's chime  
is making noise. Hazy about edges, still  
no high clouds. 1:45 pm 72° F in bedroom.

10:15 pm a bit of a breeze - 71° F

12 Apr. 8:30 am 61° F fog & chime wind

Fox Sq. 10:30 am one 15' from top of VU elm -  
it was stripping bark from 3/4" diam. branch  
- was backing down limb holding it in  
mouth. also seen carrying a mouth  
full down limb part first. Leaves too  
thick to see where it was going.

10:44 am varying levels of fog, <sup>high</sup> few open spots - ? clouds.



Christman  
1988

# Journal

33

12 Apr., del Norte st. Berkeley, Alameda Co, Cal  
10:58 am windy - no chimes. 11:08 sun out - brighter, but cool. New Fox squirrel - large, in good pelage, full tail. in feeding with m. dove at 11:53 am. / 3:30 pm high bright fog, shadows and a stiff breeze. 4:39 guests to make Williams chimes really ring - this is a Solaris, & being, & from Maturo Co. down the St.

13 Apr 5:20 am first robin at a distance, local ones by 5:45 am still dark except for sky glow - also Br. towhees chimes merrily in a while how many robins singing - 10-12 - I don't know 6:22 am first stellar jay NW. Only 3 robins singing at 6:23. 6:30 can make out trees, etc. First dove coo. 6:35 suddenly very quiet - on robins off in distance - once in a while a Br. towhee which came in to feed. 6:41 quiet, a scrub jay with one squeal. 6:50 lots of "tick" calls from a robin in yard 40 yds NW. back in house at 8:15 am - a light rain ! 8:45 let up; 3 Fox Sq. in - a small well pelaged one; a big one in good shape - and an ad ♂ testes not evident thin tail. He chased a dove feeding, & I think one in NW elm. 9:50 am sun out a bit variable clouds (different layers). 2:45 pm cloudy & windy - no rain since am 5:30 pm light rain again.

call Luis Baptista CAS = energy recognition  
= see works of CURIO  
also Hans PETERS, H. = "woodland beetles"  
(canids?) N.K. Johnson & H.P. and a pub  
by BLM on woodland predators = Steven  
Jones - STEVE Bailey CAS = <sup>no has max</sup> published his  
thesis on canids



Wistman  
1968

Journal

34

13 Apr., Del Norte St., Berkeley, Alameda Co., Calif.  
I asked Hans P. about using models  
of hawks with birds: yes, it works  
for half hour - jump, etc. then nothing, he  
used a stuffed hellraiding owl in a tree.

14 Apr. cloud cover 100% ; .10 of rain, all night  
wet. 11:07 am Fox Sq. tail very ratty -  
loss of hair - same plumage; eyes are  
squinted & an opaque light blue.

11:30 am a big ♂ in good condition. 12:30 - 1:26  
pm. a good solid light rain. Is the Fox Sq.  
in bad shape the ad. ♀? The others may  
come down with what it has. The "Mange"  
spread. 2:22 pm clouds are breaking up  
somewhat. few patches of blue. 4:32 pm  
Fox Sq. one of smaller ones - good plumage and  
full tail except end is thin & long hair.

clouds moving south. False observation  
rain in early afternoon = .10

raining again at 7:15 pm. short & light

15 Apr. clouds - low or fog. 58°F at 10 am

Early am = <sup>Fox</sup> Sq. ligad. 11 am nearly full  
sized, good plumage short tail - I think  
this is the imm. from last summer.

afternoon - windy until about 7:30 pm

16 Apr. fog, very quiet at 6:30 no robins  
singing

17 Apr. fog breaking up by 8:30 am a bit windy.

cool. afternoon clear, cool windy. The  
Fox Sq with really bad plumage have spots  
and eyes nearly completely closed is in at  
2:11 pm it's almost completely blind, scratching  
a lot - real then 7:55 the bird has



restman  
1983

Journal

35

17 Apr, ~~del Norte rd, Berkeley, Alameda Co, Calif~~  
died down, and great sheets of fog  
are softly coming in.

18 Apr foggy clouds. 8:50 am light rain.

2 Fox Sq. in; by noon variable clouds 50%  
blue. clouds lowering about 6:30 pm. a light  
sprinkle at 7:28 pm.

19 Apr rain all last night. .60" rain by  
8 am. Same wind. 10:30 - 11 heavy rain  
with wind & low dark clouds to NE. This is  
a good soaking rain - good since  
we have had none since late January!

11:58 am raining hard again. The rain had  
stopped by 2:30 pm. cloudy (100%) till sun came  
thru a bit at 4:22. One Fox Sq. in in am - the  
short tailed yearling. I doubt if the six one  
will make it thru this storm. 7:33 pm - there  
have been few sprinkles; now raining

20 Apr scattered & dark cumulus - & nimbus  
clouds, a T of rain last night. at 8:15  
am at safe way in Glenside in Albany 5  
parrots flying about the block with  
Michael's Leg-Walkers & Frank Norlop books  
they were green, fairly long tail & yellow  
on head - calling loudly & harshly.

Heard a strange call several times today -  
a simple "qua" high & rather harsh - repeated  
2 or 3 times at long irregular intervals.

Rain in at 6:30 only higher clouds, late

21 Apr Clear early; then high thin stratus; turning  
annulus to N, become cooler.

22 Apr cloud cover, cool, breeze. 11:52 am the  
rain started - by 3 several short heavy light rains  
but much wind in clouds. Duvon pour in late aftern. = .37.



Christman  
1988

Journal

36.

23 Apr., del Norte St., Berkeley, Alameda Co., Calif.  
early am; huge thunder head to NW, with  
scattered clouds here - rain last night =  
light sprinkle at 9 a.m. 10:45 am caught one  
of the smaller squirrels & took it up  
Spruce St. 3/4 mile. Two came in earlier  
an almost full grown ♂ (one caught) & a  
big stud ♂. Haven't seen the sick one of late.  
This big one is in N. valley. By 4:30 to clear.  
Since trapping Fox Sq. the big ♂ came in  
and also the short tailed smaller one.  
Clouds going S.

24 Apr fog in am. Misc clouds p.m. High clouds  
at 8 pm. all food gone put out at 7:50  
within a minute B. tanagers in feeding.

25 Apr clear with partial high cloud haze.  
Put out the link (hanging) with  
fat - suet - corn - meal outside the  
studio window - with the chickadee  
model. Hummingbird model reinstated  
at 10:26 am light sun. 10:39 am 2 Fox Sq.  
in oak skimming then high chase through the  
cedar - one with end of tail gone, both  
light colored between ears; both in good  
shape At 8:50 the big ♂ came landing &  
didn't chase it, set trap & it didn't come  
back.

at El Cerrito Plaza yesterday at 8:30 am  
3 Brewer blackbirds chasing a raven 25'  
up over parking lot & near buildings.  
4 pm trapped a Fox Sq - took it to Tilden  
Park - 2 mi. The other, the other day was +  
than a half mile. 4:33 pm huge band of high  
clouds west to almost N. haze to S; few high c.  
overhead



Christman  
1988

# Journal

37

26 Apr., del Norte St., Berkeley, Alameda Co., Cal.  
just above high clouds - warmish

27 Apr. MVZ till 3 pm cloud (high) thin at  
first till heavy at 4 pm with heavy breeze.  
By 7 pm heavy fog coming in -

28 Apr. cumulo-nimbus clouds - 100%  
cover. some dark; heavy rain - no rain,  
no drizzle. caught the large Fox Sq. & took  
it to the native area in Tilden Park - so  
by theory only one left - the smaller  
are in cedar-cab. 4 nearly clear / few cumuli.

29 Apr. low clouds 7:15 am rain, light at  
7:18. 8:36 am. Fox Sq. the smaller, short  
tailed one. This should be only one left  
of the original group - its going after  
larger sunflower seeds. The pelage  
is in good shape - not dark between  
ears. rain = .43" ! it came down heavily  
just before 8 am. Mist lifted now can see  
bottom of clouds - 100% cloud cover. 9:38  
Fox Sq. in this is almost full size darker  
between ears. good pelage, still not fully  
furred, but full length - it looks like  
the one taken to Tilden yesterday the not  
as large perhaps. came ~~down~~ up N drain  
& no stranger here! Scattered cumuli till  
about then clear - all with good stiff winds.

30 Apr. clear and windy. Some cumuli at 9 am.  
10:40 am. Brown towhee, doves & House  
finches feeding together within a foot of  
each other. After 10:30 am cumulus clouds  
building up rapidly 11:45 more than 50% cloud  
cover. very cool and windy. 2-3 per drive  
to Palo Alto, huge thunder heads in hills behind



Christman  
1989

Journal

38.

30 Apr, del Norte st, Berkeley, Alameda Co, Calif  
Fremont-Alameda Co, warm in sun, but  
heavy wind. Cool evening.

1 May up & out early, less wind no clouds.  
45 min. walk about Anne's neighborhood  
several robins, surprised there were not  
more. a number of House Finches, a few quiescent  
scrub jays; loud crows in tawera, one  
bullock Oriole & lots of doves. Mocking-  
birds in full voice. Robin in Berkeley at  
1:30 pm. (in Fremont a blackbird (prob.  
a redwing) harassing a turkey vulture).  
I am going to start writing up the notes  
from this study. 3:45 pm filled the hanging  
feeder - small seeds  $\frac{1}{2}$ ; mainly black sun-  
flower other half - small amount of millet  
& on deck same fat-soaked french bread.

4:10 pm Fox Sq. in oak high w side/movements

2 May Clear, but high clouds to NW, cool. High  
by 10 am almost complete cover by clouds  
last evening two squirrels running  
about oak one was carrying green elm  
leaves up major branch of oak, is it building  
a nest in oak? Clear in evening.

3 May a few high clouds, but clear. There is a large  
Fox Sq. nest near top of oak. FEEDER =  
4" down (slightly below top hole) on the  
sunflower side. Only house Finches  
use the feeder on a regular basis.  
impressions: jays still using oak some-  
times; tawhees far fewer times & feeding  
at ledge more often - does this reflect on  
nesting - ? no larks for a long time &  
no chickadees. 6:45 pm wind, heavier high clouds,  
chimes



Wistman  
1988

Journal

39

3 May, del Norte St., Berkeley Alameda Co., Calif  
7:00 am sunflower side of feeder (1/3 millet  
, etc) down 1 1/2" to just under 2" at 6:45 pm

4 May cool, heavy cover of high clouds which  
dulled sun; day was essentially clear.

\* Sunday May 1 - first day new green  
leaves out on the lindan tree near the  
front steps. at 3:35 pm sunflower seed side  
of feeder 2 1/2" of food left. filled it on Sunday  
at feeding on other side = house finch. 3:40 pm  
clear & windy. 7:58 very windy, cold, few cumulus  
Didn't see Fox Squirrels today

5 May nearly clear at 7 am by 8:30 scattered  
cumuli, few thunderheads, cool. Small  
slim squirrel at 8:39 am. 12 noon = 70%  
cumuli & stronger wind, no chimes yet.

> Two weeks ago  $\pm$  I put out under over-  
hang on a wire a rabbit log with holes  
1/2" with suet, and fat-corn meal. as  
an intiser a chickadee model - no reaction  
so today put out house finch model on it  
2 pm bank of high overcast from SW & mass  
extends nearly to N. sun still out and wind  
is heavier. going to be murky soon. a storm?  
diffuse sunlight. 6 pm a trace of rain. 90% cloud

6 May smaller, short tailed Fox Squirrel at 8:11  
walking back from arboreal = western Tanager.  
two squirrels in at 8:12. 70% clear; few high  
clouds & cumuli about hills cool. Things were  
damp at 6:30 a.m. neither of the sq. seemed  
pregnant - and they built a nest! 9:22 am  
90% cloud cover of all strata - low to near high.  
No shadows - 11:35 am the first drops of rain. No  
it started raining at 6 pm



Christman  
1988

Journal

48.

7 May, del Norte St., Berkeley, Alameda Co., Calif.  
heavy rain last night .70" at 8 a.m.

two Fox Sq. in at 7:30 am set trap. Caught  
the short tailed smaller one, released  
in parking area at Tilden Nature area, as  
the others - ran into a grove of live oaks  
Very cloudy with a few openings to W. with  
a few sprinkles in forenoon. Sun out 12:39 pm  
Food in feeder down to level of top perches,  
scattered cumuli all after noon & evening

8 May scattered cumulus clouds. 10:15 am  
2 fox squirrels chasing around & up & down  
trunk of cedar tree. I have relocated a  
number of squirrels the 6<sup>th</sup> - were 2 which  
came into feed. This a.m. only one, after  
the last trip to Tilden. This means one  
that has not come in to feeding area.

9 May layers of clouds high & low, sun at  
a bit at 8:30 am. 1:20 pm high thin clouds,  
with haze on the edges, a breeze, 68°F  
3:08 mallard tail butterfly. No monarch B. as yet  
filled feeder

10 May a beautiful day, a morn day; a few cumulus  
high clouds at 3:36 pm 75°F. a small Fox Sq.

11 May clear - at 7 am pleasantly cool, will be  
hot. Fox Sq. in a.s.b. a big fox sq. made  
little noise coming down drain pipe. 11:18 am =  
70°F. another smaller, Fox Sq. 4:34 = 79°F,  
7:15 pm huge whips of high clouds radiating  
outward from the W. 7:30 pm 70°F

12 May clear mild - 10% fluffy small clouds.  
until 11 am small fluffy cumuli in bands. 1:07 mid  
level stratus - fuzzy edges, lots to W. some wind,  
dts fog - really soaked in by 2 pm. 3:26 light drizzle.



Christman  
1988

Journal

41

- 12 May, del Norte St., Berkeley, Alameda Co., Calif.  
4:20 pm rained briefly. Dried up by  
5:15 new sparkling whirly, cumuli at 6:30  
pm. a new Fox Sq. a young one, small  
and a beautiful tail. Sam = T.
- 13 May \* Morning clear, comfortable,  
a band of high, wispy "wave"  
clouds & a band of lower nimbus type  
to E. 9:08 - caught Fox Sq. at 7:30 am;  
new another in cab and the small one  
on landing. Took Fox Sq. to tilted N.A.; at  
12: a very thin non-ad. in feeding.
- 14 May clear warm; quiet bird day -  
a new shiny Fox Sq. larger one at noon.  
Lots of bees next door & flying about.  
12:50 pm yet another Fox Sq. tail is not  
full.
- 15 May early am. patchy fog, clear by 8:45 am  
10 am 2 Fox Sq. a large one, & half grown  
one both in good pelage. and one in  
cedar! "Native abhors a vacuum".  
at 10:10 am 69°F fog bank to W. Fog whirps  
to NW and more over hills to NNW & N. Put  
out HOM - young Fox Sq. 4-5' from it  
feeding & checking things out - only reaction  
is lots of tail flicking. also House finches  
& towhee feeding - HF then flew 10:37 am  
ad. Fox Sq. on landing 4' from HOM pays  
no attention. The HOM sure hasn't worked  
yet. No jays have seen it - not about  
now. 10:50 more fog to NW-E
- 16 May up at 6:30 am - out at 8 for B.  
light rain from 8:15 to 9:30 solid nimbus  
cover. two sq. in feeding. 11:31 heavy drizzle.



Quistman  
1988

Journal

42

16 May, Del Norte St., Berkeley, Alameda Co., Cal.

11:53 am now a constant light rain - two young sq. feeding air landing & they tails were erect, out in rain. rain stopped about 1 pm = .20", still cloud cover. Trapped a small one - to N Barb. Library 1/2 mile  $\pm$  away.

17 May after cumulus clouds to S. at 6:30 am. clear by 8 am. Caught another Fox Sq. to back yard behind wills large branch at Madrona St. and still another half grown one where are all of these sq. coming from? at 6 am heard a crow. 12:36 pm. A cool windy day.

18 May clear - warm all day, over 80 in early afternoon.

19 May the young Fox Sq. came in at 6:30 - trapped by 8:15 am took it to John Vinkley park 1/3 mi N. by there are no squirrels left in neighborhood.

20 May clear & warm at 7 am. 4:21 pm  
Thermometer in package indoors = 104°F outdoors 83°F

21 May clear, warm 8:38 am Fox Sq. in feeding - a large one with good furry tail, along with several doves, House finches, a towhee and a plain tit mouse.

at 5 am still dark first robins singing far away, by 5:30 these close joined in the dawn chorus. The mockingbirds joined in but was almost drowned out by loud robins. all was quiet by 6 pm full light but no seen. Fox Sq. back at 10:52 am - it all too familiar with escape, etc to be a new one. busy all afternoon. 8:20 pm high clouds from S.



Christman  
1988

Journal

43

- 22 May, del Norte St., Berkeley, Alameda Co, CA  
at eight am. a little fog toward bay. But  
an overcast of high clouds all day. in Vallejo to 3
- 23 May clear 60 is, a streamer of high clouds,  
N to S. off to W which is expanding this  
way intermittent breezes from W. Put  
food in feeder - was almost empty.  
1:50 pm one Fox sq. moving branches in area  
of nest in top of oak - few minutes later, it  
rained a tremb. hazy clouds at 3;  
clearly 5 pm; pleasantly cool - 68°F at 8:22  
with a light breeze & one robin singing  
and sharp chuck calls.
- 24 May early = few clouds & whiffs of fog,  
after 10 am clear. 3:40 chunks of fog  
coming in, breeze - a cool day. at 8:03  
pm 52°F; 68° in doors; fog streaming in, windy.
- 25 May early foggy, by noon ~~the~~ scattered  
clumps; light breeze & clear outside 60°F.
- 26 May cool with light scattered low & high  
clouds, 10:25 am = 57°F. a Fox sq. in Pittos.  
at 9:30 am - only one about nest and  
it is shy - am sure its one that  
returned. 11:32 thin high clouds, hazy, 58°F  
breeze. Fox sq. back. 4 pm 7:30 pm bands of high  
clouds & bright sun. 8:02 pm dark mid-level clouds  
to W.
- 27 May clear but for high thin, streaks of  
stratus? Then about 11 am patches of fog  
began coming in. Sun between patches of  
fog. huge fog bank to W. Soaked in by fog 6:30 pm  
7:15 pm fog horns started.
- 28 May woke up a little after 4 am - a light  
rain. The robins started singing about



Christman  
1988

Journal

44

28 May, del Norte St., Berkeley, Alameda Co. CA  
this time & continued for about an  
hour +. The mockingbirds started  
about 5:22 am. at full light the robins  
stopped. The rain stopped about 6.  
Gey 9 a drizzle falling. 6:45 am two  
Fox Sq. in feeding - one was new.

9:58 am light drizzle at 9 & heavier at  
10 am. 4:PM - off & on drizzle. 7:09 pm broken  
clouds & blue - windy. 9:05 a bit of afterglow  
- very windy 8:30 - robin singing

29 May, clear & cool with a few small cumuli  
from N to S - so mild. There seems to little  
if any interactions between species at  
landing/food even with Fox Sq. (which  
one was in feeding early this a.m.). The  
exception is the scrub jay which  
harasses by "dive bombing" alone.  
This afternoon at 7 pm the mockingbird  
& house finches are the only one singing.  
60°F outside

30 May, 9 am cool, clear, quiet, no wind.  
at 9:51 am 54°F 10:04 a swallow flying  
fast about tops of elm trees - think it has  
a square tail. 2:25 pm 62°F outside, 64°F inside

31 May same filmy high clouds, fog to S & a few  
whisks over head. 54°F outside. 9:19 am another  
house swallow over tops of elms - prob. Cliff swallow  
almost complete high cloud cover 56°F outside  
Fog in bay 7. Lots of H. finches, Doves, etc.

1 June high fog & clouds some midlevel clouds  
- haze overcast. 4:35 high overcast, 74°F outside  
what looks like the first oak mite flying over  
top of oak.



Christman  
1988

Journal

45

2 June, del Norte St., Berkeley, Alameda Co., Calif

6:50 am fog low among elms; burning off by 9 am. clear to N = Fox Sq. from S part of NW elm - jumped 4' feet to utility pole & down - this is where I suspect a robin nest is 9:17 am sun out to E but again fog 95% SW-NW. 9:28 Fox Sq in SW elm going for oak. On the 31 May I had a dead tree 15' high removed from behind deck in front - this was a "highway" for sq from oak to Cedar & mesquite. What now Fox Sq.?

9:47 am Fox Sq 30' up in cedar on 4" limb - ramp against trunk facing NE in the dull sun, hunched down, tail over back - have seen much of this in past especially in winter 9:55 Fox Sq. on limb to SW (it will be over here in 15 minutes). 10:17 am just little patches of fog, 57°F outside. 8:04 pm some high & thick clouds too. There is a quiet period before dark - with few birds - (only H.F.) 8:47 pm getting dark 59°F - 2 raccoons went thru from N to S. over fence by trees.

3 June at 6 pm overcast with fog - several patches of blue to W. at 7 indications of high clouds by 9 complete cover of fog - 8:54 am 58°F outside

5 June clear at 6 - small high clouds at 8 & by 9 high & mid level cumuli from WNW - cool = 54°F outside. The feeder seems to be the house Finches only food source - they came in early & stay late. They prefer the feeder to the landing but also feed on 'the ground' with the doves & towhees.



Christman  
1988

Journal

46

6 June, Del Norte St., Berkeley, Alameda Co., Calif.

Left Palo Alto surrounded by small patches of blue and heavy dark cumulus & thunderheads, a few showers of huge cold rain drops. all the way home lighter showers until Hayward, then in a consistent medium rain with complete cloud cover at 1:49 pm  $50^{\circ}\text{F}$  outside. all food in feeder gone & cat hungry. at 6 pm = .48" of rain. Rain started again at 8:20 pm - with a rain close by making noises. Rain thru night to next am at 9 am = .22"

7 June scattered cumulus clouds from S & W cool - at 10:45 am =  $56^{\circ}\text{F}$  patchy sun - little build up of thunderheads so far. 12:52 p light rain, a "T" blew over. scattered clouds.

8 Wed June high clouds moving over, few thunderheads to NW.  $55^{\circ}\text{F}$  at 9:40 am pretty clear at 2 pm; mackerel sky at 6

9 June scattered clouds, high and ill formed cumulus; 1 pm =  $62^{\circ}\text{F}$ . dull sunlight even between clouds accumulation of clouds over hills with a breeze. 3:59 pm high clouds - hazy - slight breeze -  $74^{\circ}\text{F}$  outside. Suddenly more bird activity: G. Scrub J & H. Sparrow & mockingbird. 8:05 pm clear, far & real high clouds to W. -  $60^{\circ}\text{F}$  outside.

10 June clear, 9:45 am  $58^{\circ}\text{F}$  outside. cool breeze. 2 pm  $64^{\circ}\text{F}$  outside.

11 June fog in am - although sun out before 10 the fog didn't break up before me until about 11:15 pm, at 11:53 am -  $62^{\circ}\text{F}$  outside. a few high clouds & wisps of fog moving inland. clouds (high) to W  $\rightarrow$  N; a good breeze 3:40 pm =  $72^{\circ}\text{F}$  outside



Christman  
1989

Journal

47

11 June, del Norte St., Berkeley, Alameda Co., Calif  
8:26 pm sundown; 58°F slight breeze

12 June 6:45 am fog lifting, condensation  
dripping off roof onto landing. Clear  
cool at 8:15 am 9:29 Fox Sq. came in. a ♂  
thin with a poor tail. Was out grocery  
shopping awhile a little after noon.  
It was very quiet, people on bridges,  
running or strolling - but not many.  
Safeway was crowded and people were  
out on Galano. A peaceful sunny  
day - at 2:35 pm 60°F outside in sun.  
Slight breeze. Saturdays here are  
busy & hard to park.

13 June Clear, out early, at 8:10 am - 56°F  
8:20 am Fox Sq. in briefly 8:41 Fox Sq. in Walm  
high. 11: am filling high clouds to SW and  
hazy<sup>is</sup> hazy - fog (?) with a dull soft edge  
off to ocean, 68°F outside. Refilled the  
2 compartment feeder 20%, 1 ♀ many little  
twittering calls. 11:24 Fox Sq. again - same  
one? 1:40 pm high clouds S to N. (glw gyps).  
2:44 pm more haze SW & lots more high clouds

14 June fog, at 6:30 a jay mob scene  
S. scrub & I suspect a Steller also.  
8:48 am Fox Sq in full tail except thin hair  
fog broke up a bit 1-3 then closed in, in  
a spotty way

15 June more fog 54°F outside. Fox Sq. in at  
6:30 am. 1:27 pm fog, but brighter now & same  
wind. 58°F. at 3 fog cleared to W. but a very  
hazy blue 4:50 pm fog coming in, 66°F, breeze.

16 June - 6 am. a few fog clouds - looks like  
thinning cumuli to far W. Bay 7 complete.



Christman  
1998

# Journal

48.

16 June, del Norte St., Berkeley, Alameda Co., Cal.  
overcast of fog 9 am = 57°F outside

2:26 pm overcast has broken up - high  
clouds & patches of fog going NE & a good  
breeze 64°F hazy blue to W. fog streaming  
back in at late afternoon. 7:36 pm bright  
due W. blocking out the sun, 8:38 no breeze 57°F <sup>out</sup>side

17 June, fog, at 9:43 am 54°F outside.

hazy clear at 1 pm. 2:24 pm = 64°F outside

18 June clear; will be warm today. now wind  
into 70's. late evening 7:30 pm on quiet.  
except for plain titmouse.

19 June clear not as warm as yesterday  
a bit of a breeze at 3 pm. 3:50 wisps  
of fog S to N & hazy to the W. fog in by 6:30 pm  
It's so quiet in the fog, except for S. noises  
20 June Fog. by 10:45 am sun out with  
patches of blue & great chunks of fog making  
S to N in front of me. 6 pm scattered patches  
of fog & a band of high & midclouds to S & SE  
(TV = thunderstorms down peninsula) 8:30 W - bands  
of higher clouds & bits of fog to N.

21 June fog in am. 10:20 am = 1 Br. towhee,  
2 doves, a ♂ & ♀ House finch, briefly a  
chickadee, 1 Plain titmouse and a  
female-type House sparrow chattering  
in Pittos. - afraid to come in.

22 June clear going to be warm; fog bank at coast.

24 June clear cool; a heavy bank of clouds  
to S - SW in am.

25-26 June went to Healdsburg. Family wedding  
strange clouds with virga. Home 2 ± pm Sunday

27 June clear, bright. Fat Egg in early & <sup>briefly</sup> by



Christman  
1988

Journal

49

27 June, Ednaite St., Berkeley, Alameda Co., Cal  
a warm week

3 July Yesterday a bit of fog at 7 am but dispersed by 8 am. This a.m. is quiet, and largely with a complete overcast, 60°F outside pretty clear by 1 pm; 70°F by 3. a good sea breeze - the usual clientel 7:13 pm brighter sun; robin tucking, wisps of fog to NE. 7:56 pm huge chunks of fog to NE - mourning doves & house finches.

4 July scattered fog going N & E from 8 am clear by 11; sunny afternoon but windy

5 July early broken fog, clear at 10; 12:30 pm thin high cloud cover, sunny but dull. a new small (juv.?) Fox Sq. in; very persistent (at least one).

6 July clear & warm

7 July ~~2:05 am in we sleep~~ ~~get sick~~ ~~me~~ from the clear warm. juv. Fox Sq. in 5:45 am & about noon.

8 July fog in a.m. = came in about 8 pm <sup>yesterday</sup> by 10 fog breaking up. at noon its cool & breezy at 60°F outside. Fog in by 7:30 pm

9 July fog breaking up by 8: am young Fox Sq. in early-7:30 ± am aggressive uttering at me.

11 July fog came in last night. Fog - not too heavy breaking up by 10:30 (10% blue)

13 July fog until 10 am

16 July wake up at 4:20 am & again at 5:45 no dawn song - only one robin singing, off somewhere

17 July clear & hot by 9 - at 1:32 pm 94°F outside in shade. 7:45 pm sun behind trees 80°F a very hot day. Records broken everywhere.



Christman  
1998

Journal

50

18 July, del Norte St., Berkeley, Alameda Co., CA

Clear warm; at 11 am  $70^{\circ}\text{F}$  outside.

1 pm  $\pm$  cool sea breeze & can see fog out the S.B. bridge. 1:55 pm  $71^{\circ}\text{F}$  outside. The fog started coming in about 6:30 & fully in by 7:35 pm.

19 July fog - low at 7 am. 8:54 am =  $54^{\circ}\text{F}$

diffuse sun out 10:15, a breeze. Fog all day with some breaks. 12:53 pm slight breeze, no sun  $62^{\circ}\text{F}$  outside (at 12 noon  $59^{\circ}\text{F}$ ). 3 pm  $1/3$  clear, breeze,  $58^{\circ}\text{F}$  outside.

20 July hazy fog, variable, 9:24 am  $60^{\circ}\text{F}$ . Fog heavier, at 10 am complete cover. Sun out some at noon,  $66^{\circ}\text{F}$  some stringy cumulus.

22 July as yesterday - fog and cumuli in varying thickness from E. Cleared in mid afternoon low  $60^{\circ}\text{F}$  slight breeze sun by late am - diffuse. 90% clear 3 pm  $74^{\circ}\text{F}$ , sky a hazy blue. Fog coming in at 5

23 July fog till about 11 am then opening to hazy sun with cumulus high,  $74^{\circ}\text{F}$ .

25 July Fog lifted by 9:30 am going to be a hot day

26 July fog lifted at 8:30 am cumulus stringers from E cool breeze.

27 July Fog cool, started clearing up at 10 & whiffs left at 11:30 am. 50% + fog cover at 12:45 pm. Completely clear 3-7 pm Fog returned in 15 minutes at 7:30 pm.

29 July Clear over head but fog (broken) about cool. Never get above  $70^{\circ}\text{F}$  fog returning by 8 pm =  $59^{\circ}\text{F}$

30 July Fog. breeze, cool - at noon. 12: lots of activity; not much feeding tho, out of small Bl Shear.



Christman  
1988

Journal

57

31 July del Norte St. Berkeley, Alameda Co., Cal.  
to Palo Alto yesterday. Fog there this am  
burnt off by 10 am. One dead deer (near  
Marian church - Mantelaine) no skunks,  
raccoons or possums. Coming back broken  
fog at Mantelaine at 1 pm. After noon  
here in Berk. scattered fog & wind from W.  
Again heard & saw crows at Ann's  
house. Here at 2:45 pm 68°F. 7:39 pm  
= 60°F complete fog came except a brighter  
streak off to NW - white

1 Aug. After 4:30 am to 6:30 only one  
robin, ee-e-e, call. No singing, no jays.  
complete fog over cast. at 8:22 am  
56°F. The small Fox Sp. in at 8:15; then  
a really big & bright one came in -  
so there are two!

2 Aug broken fog over with streamers of  
high clouds. Cool last night. 11:38 am  
hazy sun, some strong gusts of wind.  
half & half day, a few high clouds. heavy fog by 8 pm.

3 Aug fog disappeared early, clear by 9 am  
but as a hand to NE - a bit hazy. The  
slows getting progressively more yellow

4 Aug clouds - high & spots of fog. 4/5 cloud cover  
by 2:30 68°F - not sultry, cool breeze.

5 Aug heavy fog until 1:30 pm fairly clear!  
mainly clear in pm - no high clouds. at 7:30  
pm 64°F outside. breeze. one hand high cloud.

6 Aug fog early, 90% clear by 9.

7 Aug 1:30 pm still fog hanging in. Two  
adult sized Fox sp. in backyard (one  
- the aggressive chase dart between eyes  
& a poor tail - it came to landing).



Christman  
1988

# Journal

52

8 Aug. off route to Berkeley, clouds at 6, fog broke up at 9 am, 10:48 am scattered & 60°F outside. quiet day.

9 Aug 8:13 am fog, 56°F outside.

11 Aug No sun to day & very little yesterday. 7:40 pm 54°F outside.

12 Aug 10:30 am very heavy fog, though not low. a light drizzle; landing damp last night. 11 am B. towhee & scrub jay (ad) foraging on ground among oak leaves in backyard. And Fox Sq. (ad) but thin tail, at rear feeder. Jay "gaa" calls - same time ad malling on front land both flee off calling. Also a very ratty malling bl. towhee in front.

The elms have a definite yellow/tan cast to them - varies with tree; end of branches first & both high and low - a strange draught year - the Ind. 2:30 pm 58°F outside with a breeze. Sun out by 6:30 p. same scattered clouds & fog.

13 Aug fog; hazy sun at 11:50 am. 60°F. bits of fog to N, moving from S. 50% blue 61°F - feels cool. Yesterday Fox Sq. in elm to SW. The removal of dead tree between cedar & oak limits, now, access to the oak. Seems to be only one Fox Sq. now. It still tries almost every day to come in front to feed - I chase it off. It does feed on back feed unharmed. Clear in afternoon; 5:30 whiffs of fog from SW.

4 Aug Fog to now 2:44 pm = Fox Sq. in oak S side near end of vertical branch - it is hitting off something & eating it with hands.



Christman  
1998

Journal

53

15 Aug, del Norte St., Berkeley, Alameda Co., CA.  
fog in am. then going to Palo Alto today

16 Aug My birthday! was in " " -  
clear, (yesterday - fog S. to Hayward &  
broken fog across ~~San~~ Barton Bridge  
clear there, but a bank of fog over the  
coastal hills). Left at 10:45 am - clear  
all the way & in back at 11:45 morning  
trip. 2:20 p. Fox Sq. in oak; one on landing  
about 1:30 pm - same one? 7:51 after  
sundown - quiet except for traffic & jets.

17 Aug clear at 7 am. Condensation on  
landing - very wet & dripping from  
roof. at 8:55 am 58°F.

18 Aug clear will be a hot day. 10 am = 62°F  
This is a very quiet day. Found both  
dove flight feather & jay tail feathers  
in yard this a.m. 11:15 am Fox Sq. in to  
landing - almost full size & tail is  
not as full as other. Yesterday at  
5:30 pm ± one running about in  
oak - frisky. The sun is about down  
get to about 70°F to & cooled off quickly

19 Aug Fog at 6 am; pretty clear by 8 am.

filled in again - complete fog cover at 8:46 am  
14:52 pm first monarch going S. New Fox Sq.  
really a big one & nice tail! Fog coming  
in.

20 Aug Fog. at 7:45 am a Fox Sq. W. across the  
st. parking & scolding & another N of house  
doing the same. One was in early at landing  
Fog just coming in at 8 pm 57°F outside - cool day

21 Aug Thunder about 6 am - 8 am, T of high tops  
of rain about 7:30; fog early no 100% clouds.



Christman  
1988

Journal

57

- 21 Aug., Ed Route 51, Berkeley, Alameda Co., Calif.  
more thunder about 10:30 low fog from  
W & scattered cumulus clouds, light  
to filtered sun. at noon =  $63^{\circ}\text{F}$  outside.  
Put out the Drexel Yankee feeder -  
the large tube kind that Anne gave  
me - no bottom so weired the plastic  
top of Hagan daz ice cream to bottom.
- 22 Aug was up into mid 70's yesterday  
afternoon - clear. This am. fog  
burnt off early - 8 am - wafts of  
fog from W at 9:30 & small cumuli  
from SE.
- 23 Aug. fog early & blue leg 8, clear by 9:30  
am. The clouds are now predominately  
yellow & tan.
- 24 Aug little fog again
- 25 Aug no fog & very hot - in 90's
- 26 Aug from 7 to 8:30 bands of cumulus  
clouds, thinning from S. going to be  
a hot day. Late yesterday a Fox Sq.  
was feeding in the oak. This a.m. an  
steps were torn apart & adobe under  
the oak - all about  $\frac{1}{2}$ ". A cooler day -  
8 pm sun low available &  $61^{\circ}\text{F}$  clear all day.
- 27 Aug fog coming in about 2 am. Cool  
- fog at 9 with few thin spots.  $58^{\circ}\text{F}$ .
- 28 Aug fog, 1
- 30 Aug fog, opening to E by 9:30 am. clear all  
day fog back in by 8 pm
- 31 Aug clear at 7:15 am; fog in at 8 am. scattered  
fog & hazy sun at 10 am
- 1 Sept fog, a quiet day. { same for less.
- 4 Sept " clearing by 8 am { sun all day.



Christman  
1988

# Journal

55

- 5 Sept., del Norte St., Berkeley, Alameda Co., Calif.  
Fog, hazy sun by 9:20 am. 58°F outside.  
Fox Sq. in oak, then another at 8:15 am  
then a chase up & down cedar trunk.
- 6 & 7 Sept fog at 7 am clearing between 8-9  
cool 58°F at 9:27 am.
- 8 Sept 1:30 pm heavy fog, no sun, tho  
a few small holes of blue to NW. 60°F outside
- 9 Sept. 9:34 am fog, 58°F heard a robin  
tucking about 6 am, no early jay calls  
cool day cleared in afternoon.
- 10 Sept early fog. Fox Sq. in at 8 am a short  
tail - a new one not as large as others.  
not a warm day. fog back in by 7:15 pm
- 11 Sept - to Mendocino - meeting A & B.
- 16 Sept back to Berk. on Wed. 14th about 2:30  
pm. fog. all food gone. Threw out safe-  
way bird mix. at 4:30 we have finch.  
filled D-4 feeder. On 15th more finches  
& one dove. When food not out they  
disappear. fog most of day. Today: a  
sabin eh-eh-eh at 4:30 am. 7 doves  
in feeding at 7 am - a fair amount of  
chasing, etc. several house finches.
- 17 Sept. variable types of high clouds, from  
NW. cool, low 50's 50°F outside last night.  
This am at 7:30 am landing is wet from  
condensation. Titmouse around earlier  
yesterday. clouds gone SE by about  
noon, warmer & clear
- 18 Sept very hazy am. esp. on horizons.  
at 10 am a yellow hazy glow - no shadows  
70°F Single Monarchs flying S. Fox Sq in oak  
bitting acorns. Leaves falling, very minor bits of green.



Christman  
1988

Journal

56

18 Sept. del Norte St. Berkeley, Alameda Co, CA  
a very strange day - strange quality  
to the air. late pm - a brush fire at  
Vacaville - no smoke. clear late afternoon.

19 Sept. 8:30 am high clouds, long string and  
cumulus to NW to NE. Fog on top of hills  
moving S. a cold front down from  
the Pacific NW. The weather has shifted  
to an early fall.

20 Sept clear, cool & lots of condensation  
on porches. a few very faint high clouds  
no wind. Many bare branches on  
elms; few green areas (those in middle  
of trees). clear all day except a little smoke  
from Vacaville fires. at 7:40 pm practically  
dark - 56° F outside - fall is here! will  
be get an "Indian summer" - warm -  
when will the rains begin. Very dry.

21 Sept Equinox clear at 7 am. By 8:20 am  
fog had come in from W. cool. 52° F.; 9:30  
am fog cleared but a bit hazy, same  
fog - cool, damp. 3:26 pm. a good breeze  
64° F outside.

22 Sept. scattered fog early, condensation on porch  
56° F at 9:30 am. 9:55 am short tailed Fox Sq. in oak  
~~leaving~~ gone by 11 & one broad stringer of high  
clouds to NW. 4:07 p. 78° F a few high clouds.  
a long tailed Fox Sq. in the oak.

23 Sept. fog; clearly 8:30 am, hazy, 50° F outside.  
3:06 pm 66° F. sunny but hazy. several  
monarch butterflies. 3:20 pm some high thin-  
diffuse clouds from SW. 6:52 pm almost  
sunset - longer nights THIS FALL 58° F  
outside - clear, but hazy - bare elm branches.



Christman  
1968

Journal

57

23 Sept. del Norte St. Berkeley, Alameda Co., Cal.  
John Westlake said this a.m. that the  
first white-crowned sparrows arrived  
this am at his place. In going to be  
watching the precursors of winter -  
is there a clue or clues to the  
start of season coming up? There  
are rumors (or wishful thinking)  
that this is going to be an early,  
wet and colder winter, after 2  
rather mild & dry winters.

24 Sept. 8:58 am up at 7:20 am - fog  
no condensation; 51°F. rather heavy  
fog until it opened about 2:40 to  
hazy sun - fog back by 5 - 56°F out

25 Sept watched KQED until 12:05 am =  
no fog but clouds - broken. at 7:45 am  
came out of clouds. Out for breakfast =  
light rain 8:45-9:30 am enough to wet  
everything. by 10 clouds blowing of to NW-NE.  
58°F. a quick little frost & early one!  
Warbler in back with a flock of lark-tits  
clear most of afternoon.

26 Sept clear, cool (49°F) & wet due to  
condensation. clear all afternoon - cool

27 Sept high fog; 58°F at 8:58 am. The fog  
started to open at 9:15; pretty much clear  
by 9:45 - a bit hazy. A few high strings  
of clouds - very thin. yesterday & this am  
monarchs to 5 (one to N). After 3 bands of  
high thin clouds from W to E.

28 Sept clear, cool, no wind, everything  
wet from condensation. clear all  
day - not especially warm.



Christman  
1988

# Journal

58

- 29 Sept., del Norte St. Berkeley, Alameda, CA  
clear, not as wet outside; at 9 am  
59°F. a consistent 4 or 5 monarch  
butterflies seen daily. clear & hot out  
- herb patio in shade - 79°F; in front  
shade outside 83°F. 3:55 pm in sun =  
100°F - clear no wind; quiet hot day.  
Sundown ± 7 pm at 9:07 - 74°F outside upstairs.  
Crickets in herb yard - have heard them <sup>an</sup> ~~even~~ nights.
- 30 Sept clear, damp at 8:19 am 55°F outside  
2:02 pm 75°F (shade still, & will be in the sun  
shortly). Hazy about the edges - smog.  
7:07 pm Sundown, clear herb & fog to S & W  
moving rather quickly this way. 58°F outside.
- 1 Oct fog, low down the hills. at 9:09  
am = 51°F outside at my desk up stairs.  
9:46 am Fox sq. full tail, ad size, but  
not as large as some - scissor  
dark nipples on belly behind arm  
pits. Fog until 4:30 pm - scattered sun,  
cool, 7:06 54°F & broken sky to W, fog <sup>coming in!</sup>
- 2 Oct. Fog, 9:22 am 57°F fog breaking up at  
noon & mixed all day pretty clear at 6:50 p  
with 59°F
- 3 Oct fog, 10:05 am 58°F very quiet! a few  
doves in early. Have been cleaning up landing  
- a robin & robin landing - nothing has  
come in - things look different.  
10:47 am hazy sun out to E, fog S to W to N.  
11:18 am a few patches of blue to W; brighter sun to E.  
11:49 am 75% clear = 60°F. 1:45 pm monarchs  
flying by. 3:07 pm 65°F outside - cool, light breeze.
- 4 Oct, fog. On Sunday (2nd) a dead possum  
on Grove St near Elacado, this am on Kypka



Christman  
1988

Journal

59

- 4 Oct, del Norte St, Berkeley, Alameda Co, CA  
- on Hopkins near Gutter - why 2  
on streets at this time 9:21 am filtered  
sun breaking through, fog breaking  
up high to W-NW. 9:29 am ♀ fox sq. down  
drain pipe - nipples on side of upper belly.  
The short tailed Fox sq. is in the near  
cedars. 10:10 am 56°F. More robins about  
and ? cedar waxwings ?, cooper hawk &  
Kestrel I guess "winter" is near. 10:22 am  
sacked in with heavy fog again 11:14 am  
hazy sun, high broken fog; looks like some  
high clouds. 11:39 fog again. 59°F a monarch  
flying high to W & SW. 12:04 pm the short tailed  
Fox sq. on landing. Hazy sun, still overcast.  
12:25 pm there are clouds now dull overcast  
layers to <sup>W<sup>N</sup></sup>W. same blue. 3:30 pm mainly  
clear, all sorts of clouds, all levels. Thunder-  
head to N., brisk wind. 6:06 pm 62°F dumber  
clouds to ~~W~~W & NW. little wind. quiet, no activity.
- 5 Oct Fog, 8:41 am 54°F 3:24 pm still foggy  
at 58°F. The sun never came out. 7:24 pm  
54°F outside & a cricket is stridulating
- 6 Oct Fog, everything wet from dew & a  
light drizzle falling at daybreak - Tan.  
8:22 am 52°F no birds about, but food  
gone on deck. 9:21 am a fox sq. (short-  
tail) in oak foraging on small branches  
saw another one came over the back  
fence & down the "fence" of ivy to subank-  
ment fence with a large seed as fruit  
in mouth which it buried in leaf litter  
under the larger oak. Then it arrived  
on the landing in front. Still heavy fog.



Christman  
1988

Journal

60

6 Oct., del Norte St. Berkeley, Alameda Co., Calif  
10:46 am big scruffy, full tailed Fox sq  
into feed, saw me & left. 2 pm 57°F quiet  
breezy at times. Overcast broke up a  
bit about 4 pm then returned.

7 Oct wake up about 2:30 am to a light  
rain & it continued for about an hour.  
Scattered clouds at 7 am. Things wet  
except under thick trees. Just stray  
bits of cumulus about. 9:35 am fog is  
back in.

8 Oct clear, but misty 56°F at 9:37 am  
one or two Monarchs yesterday & today

9 Oct. hazy, clear overhead at 7 am, by 8 am  
low thick damp fog 51°F. Nice warm day

10 Oct. Fog, 51°F at 8:23 am. Clear by  
noon. 1:49 pm bank of clouds to NW to SE.  
clouds overhead by 3:30 pm

11 Oct Fog (hazy & Maricao. in sun) from  
Galano ave. 12:08 pm scattered fog -  
it has been more open to SE - W & thicker  
over head & to N. 60°F. Briefly clear<sup>+</sup> at 5 pm

12 Oct Fog all day, briefly open to W at 5:30 pm  
some high clouds to W at 6:30 pm Raintanawan:

13 Oct general cover cast - looks more  
like clouds than fog, 54°F. 10:20 am  
heavier cloud cover - little bird activity.

one H. Finch in top of elm. 1:20 pm some sun,  
periodic wind from SW; dark clouds to SW  
and many layers of clouds. 3:37 pm start/rain  
really coming down at 3:41 pm. rained a  
fair clip to 6 then lightened up.

14 Oct 6 am dark & a light drizzle, at 8:14 am  
55°F everything wet. 9 am dull overcast<sup>no</sup> rain



## Journal

14 Oct., del Norte St., Berkeley, Alameda Co., CA  
 8:59 am lighter, clouds parting, small patches of blue - clouds moving S. from N. 10 am larger patches of sky, 62°F in protected back patio (kitchen), 60°F upstairs outside. Rain fall late yesterday & this am. 45". 10:46 am 75% clear; 1 pm scattered clouds some big ones & very dark, clear to W. 3:59 pm rather clear, fog off to W, a few high clouds 79°F in sun.

15 Oct. 9:27 am clear, cool (56°F upstairs) fog over bay - fog horns. Everything wet from dew. very quiet. Monarch - have seen about one a day lately. To Palo Alto warm & clear. Mockingbirds singing in short bursts.

16 Oct. left P.A. at noon - back. 1 pm clear & hot 82°F in back patio in shade; 85°F upstairs at 1:51 in shade (so far) high clouds from N - off to N and to SW.

17 Oct. 8:19 am clear, 59°F. By 10 am have seen 4 or 5 monarchs flying thru. One landed near top of oak for a few minutes. 10:28 am some gusts of wind, a shower of yellow leaves falling up the st. high pressure to NE with off shore interior winds 11:28 am consistent wind. Fox Sq. 2 in feeding about 8:45 am.; 11:30 another one - thin & ratty tail - others full tail, plus the one with only 1/2 tail. 2:19 pm monarch going N! very hot afternoon. 8:33 pm 66°F upstairs

18 Oct. clear, sun over hills at Artman's - for breakfast at 7:57 am. 8:26 am 56°F upstairs 10:19 am monarchs floating S.



Christman  
1988

Journal

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18 Oct, ~~del Norte St., Berkeley, Alameda Co. CA~~

3:15 pm west Berkeley - gaps of fog  
forming in a blue sky at the bay  
shore & rushing overhead to hills  
west burning out after 1 mile. bank  
of fog to fair WNW & SW. at 3:52 pm  
in sun 79°F upstairs. 6:30 completely fog  
19 Oct thin spotty fog; dew on things, 51°F  
upstairs. 12:17 pm clear, cool (63°F) with  
only one high wispy cloud.

20 Oct. low dipping fog, 54°F - the utility  
pole at circle is very pale & up st cedar very  
muted. House finches in Pittos making noise.  
9:40 am the low fog has lifted & a very  
dull sun but no shadows. 58°F. 10:38 am  
essentially clear with hazyness about  
horizons. Big chase by 2 Fox Sq. on the  
trunk of near cedar tree - both with  
long fluffy tails.

21 Oct high fog, no dew, 7:56 am 50°F  
8:20 am a small thin Fox Sq. with distal  
half of tail rather ratty. A new one -  
very persistent. 9:03 am if anything the  
fog is lower. So far: 1 fox Sq., 1 towhee in Pittos,  
one house finch in top of NW elm & the cooper  
haw-b. Is the lack of bird activity due to the  
haze in the neighborhood? 10:18 am 3  
HF in top of NW elm & robin in top of up st cedar &  
a flicker called & 1 Br. towhee to feed. Slow day.  
10:51 am another small (juv?) Fox Sq. down  
from house roof - good tail. So this makes  
2 new ones in a day! 12:28 pm short tailed  
Fox Sq. in; 56°F fog - higher now. dull day  
3:45 pm sun out to W - not still foggy. 7:09 pm 52°F



Christman  
1988

# Journal

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22 Oct, del Norte St., Berkeley, Alameda Co., Calif  
10:35 am a few blue holes in fog, dull  
sun, vague shadows. = 54°F. 10:44 am  
pretty well cleared up 75% blue soft hazy  
light. 11:49 am in 10 minutes 3 monarchs  
to 5 three yard - none flew by in the fog.

3:19 pm = 64°F From Halden Gate Audubon  
Soc. bought 2 25/16 sacks of "Black Oil  
Sunflower Seeds." 42. -

23 Oct fog, 10:34 am 54°F. 2 robins & 2 house  
finches in tops of elms. Sun out a bit at 1:30 pm,  
still overcast SW to N. 2:17 pm 60°F sun, few  
holes in fog. 1 monarch in early afternoon.

3:01 fog filled completely, no sun no robins, etc.

24 Oct. fog, 12:06 pm 54°F up stairs outside.  
complete cover, dull day.

25 Oct. Fog, 51°F. General For. Sq. in Robins  
in neighborhood about 10+ lanes & like  
of House finches into feed together, at  
10:20 am both fly in directly. The robin  
chasing this am is a dramatic occurrence  
- they are so obvious, now in numbers  
flight & calls. This am. is amazing for  
it seems to be a winter pattern with  
overcast skies. Many house finches &  
robins. Brown towhees & jays present  
tho not obvious. No heavy winter type  
stains here or up the coast. 11:54 4 robins  
1 scrub jay & 4 H.F. high in NW elm. = 54°F outside  
up st. at noon - first small flock of waxwings!

26 Oct. 12:51 pm 54°F fog (didn't clear up  
here in afternoon, but a brief break in  
W. Berks.) Dull fog all day. 7:22 pm 51°F  
outside. Possible storm Friday night.



Quistman  
1988

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Journal

27 Oct, Del Norte St, Berkeley, Alameda Co., Calif.  
fog, 50°F. doves in early. 9:30 - am. only  
bird about is a house finch in top of N. elm  
no robins, towhees, etc.

28 Oct up & out at 6:45 am - more fog.

29 Oct overcast 11:15 = 58°F quiet in am  
about 10 + more robins, doves & finches.

One monarch at 2 pm - first in several days.

2:18 a dull sun thru overcast - vague shadows.

2:51 pm patches of hazy blue; 63°F.

30 Oct clear BACK TO STANDARD TIME

10:08 am 54°F 3:45 pm 6 doves, 3 ♂ house  
finches & one chickadee. 3:55 10 doves. no junc.

31 Oct. blue skies, except for high thin  
males' tails going to SW. 59°F at 9 am

after days of overcast - fog today with  
only semi-sharp shadows, long  
thinish clouds and filmish horizons  
is different. a monarch came out of  
the N & flitted about the Pittos. Then it  
found the only white flower & settled  
on it. It then flew on. 10:30 am 62°F

- high clouds are thicker to SW & shadows  
are more diffuse. noon 70°F fewer clouds  
high thin clouds out of SSW to N. 1:10 clouds  
getting heavier, no shadows. 85% cloud  
cover to SW at 1:24 pm. 2:43 pm high thin clouds  
& a few patches of pale blue. No wind today

1 Nov. 8:30 am fog; 53°F. 10:10 am = no robins,  
no flickers, doves in at 7+; non-new, 3 House  
finches & one towhee in Pittos. Very slow am  
no junc. 11:11 am a heavy mist falling  
by 1 pm opening - clouds - all levels. 4 - band  
of blue to S. Home - complete overcast 57°F



this town  
1988

Journal

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2 Nov. del Norte St., Berkeley, Alameda Co., Calif  
wake up to the sound of a gentle  
rain at 1 a.m.; it continued for  $\frac{1}{2}$   
hr. & tapered off. at 7-8 a.m. a few  
hales to S & W blue with blabber  
cumulus clouds. 8:40 am light rain.  
very brief. 2:10 pm were a few open  
spots, but low cumulus & just about  
continuous in space & time. 4:30 pm  
solid overcast above, open pieces of blue &  
clouds to SW to NW.

3 Nov. light rain about 5 a.m. dull leaded  
skys, by 8:30 am lightest drizzle. 9:11 am  
2 Fox Sq. in oak, same mild chasing. -  
a not very enthusiastic copulation  
the short ( $\frac{1}{2}$ ) tail is ♂ & ad. size ♀  
with a full tail. [that leaves 2 sub-  
adults which are smaller & come in  
to feed as well as these adults - are  
the young last years progeny - ?]  
This "pair" were chasing about yester-  
day in up St. Elms. 10:45 am no more  
drizzle - still heavy overcast, but not  
dark. 11:10 am several gusts of wind and  
the first of air liners over low. when  
air liners are heard it means: that  
there are south winds at the Oakland  
air port & the approach pattern is  
from the north! why none before 11  
and now several? .13" rain

4 Nov low wet thick fog at 7 am, clearing over-  
head & only patches N & E. Dark steel blue to  
W. 53°F. 10 am fog breaking up into chunks -  
59°F bright sun in patches. Clear at 11 62°F.



Christman  
1988

Journal

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4 Nov, del Norte St., Berkeley, Alameda Co., CA

2:15 pm, a monarch flew by. clear slight breeze, in sun upstairs =  $86^{\circ}\text{F}$ .

bank of fog SW to NW above horizon -

No high clouds - went over quickly at 4:20

5 Nov spotty upper clouds "Maresal"

clouds from W. 9 am  $57^{\circ}\text{F}$  to Palo Alto

- there by 11 am increasing clouds at all levels

6 Nov in PA clear, a few cumulus to E. Home

at 12:45 clear with high stratus to W. at 1:16

in shade upstairs =  $61^{\circ}\text{F}$

7 Nov. scattered clouds: filmy high & diffuse

cumulus 8:05 am  $50^{\circ}\text{F}$ . no wind - dull

sky. 9:08 am complete cloud cover.

9:31 a breeze from the S. it is blowing

cedar seeds & the few remaining

elm leaves to the N. clear to W-N in

afternoon. High clouds to W at dusk - 5:15

7:32 pm  $50^{\circ}\text{F}$ .

8 Nov 8:11 am  $50^{\circ}\text{F}$  complete cloud cover -

multilayered. 10 am gray then where

no distinction of clouds as earlier.

9 Nov high thin clouds, 8:21 am  $52^{\circ}\text{F}$ . 9:15 am

$54^{\circ}\text{F}$ , dull high overcast, diffuse shadows.

12:30 pm a few high clouds & cumuli building up behind

hills. 2 pm now uniform darker high clouds - layered

10 Nov wake up to rain at 11:30. at 6:30 it

had stopped. = (0.25)" the clouds were

breaking up by 8 am but no blue;  $52^{\circ}\text{F}$ .

43 clearly 10:30,  $58^{\circ}\text{F}$  - higher clouds disappearing

& now only a few cumulus in every direction.

1 pm. brilliantly clear day with many cumulus

clouds, some as small thunderheads to SE.

1:44 pm some filmy high clouds to W, breeze



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Journal

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10 Nov, del Norte St, Berkeley, Alameda Co., Calif  
2:06 pm high clouds streaming to S-SW from NW. 3:45 pm 61°F now a few cumulus but from W. a layer of high clouds - so color is a dull light gray no shadows.

11 Nov 7:30 am things wet & heavy clouds. 8:30 am is breaking up, no sun some blue Fox Sq. there are 3 - a small juv. with slightly poor pelage, it maybe molting (base of tail - proximal  $\frac{1}{4}$ ). Then 2 adults which have been in oak and the upstreet elms. The  $\frac{1}{2}$  tailed one is ♂ & chases & copulated with other - a ♀, presumably. I noticed last weekend that these 2 are quite suddenly rather fat, noticeably! all 3 are very persistent in coming to landing to feed on bird seed. I chase them away, they return! will trap them. 10:14 am. low clouds from W - diffuse cumulus. Higher clouds from the NW. 50% blue; clearing up. Only a trace of rain this time. 12:19 pm ~~clouding over from SW~~ 1:19 variable clouds at different elevations from NW.

12 Nov light rain started at dawn, continued to about 9 am & stopped .05", dull sky.

no sun at 11 am. 11:30 am caught the short-tail ♂ Fox Sq. & released it at Hinkle City Park  $\frac{1}{3}$  mi. NW. a light mist falling. Room 54°F

12:35 pm 2 sp. in the young small one and one with a short tail? It could not have returned so quickly - unless there are 2 at that time - a full tailed (? ♀) ad in oak - cedar. 2:00 pm sun & blue sky to W-SW; clouds to N



Christman  
1988

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## Journal

12 Nov, del Norte St. Berkeley, Alameda Co, Cal

4 pm more clouds from SW making a sky

13 Nov. light rain at 7 am, some wind,

9:16 am clearing to W & bright sun, clouds  
moving fast to N. 9:43 more clouds & wind  
is getting stronger major branches moving

55°F 11:30 am 5 mins of very heavy showers

at 1:09 cloudy, drizzly. 51°F today = 18" rain

14 Nov broken cloud cover (95%) 46°F

F was a dawn pour at 6 ±. Rain  
since yesterday afternoon = 20"

10:07 a.m. 50°F light sprinkles. Have seen  
no squirrels so far this a.m. They showed  
up in afternoon!

15 Nov scattered low cumulus clouds

at 8:17 am 50°F 10 am variable clouds,

sun out now, 52°F. drawing class 3:30 pm

layers of cumulus clouds, dark toward hills,

55°F. clouds collapsing & lower no rain

16 Nov at 6:30 low clouds, slight drizzle,

8:20 am light rain 50°F. Rainfall at noon

19"; 1:34 pm heavier rain 3:31 pm constant

rain & some wind. Birds in the rain in

light rain towhees, house finches & C-B

chickadees active - out in in. In heavier

rain 10+ doves hunched up on major

horizontal branches 3-5" thick, 5-10'

from trunk & fly into feed. Kinglet on

top of canopy during medium rain.

Rain stopped about 6 - at 7:24 pm = 48°F

17 Nov 7:00 am 42°F Clear no wind. 9:13 am

few cumulus SW; 47°F. Yard very wet!

10:45 am windy. 12:27 pm 53°F 12:30 caught

a small Fox Sq. & took it to Hinkle Park,



Quistman  
1988

Journal

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- 17 Nov; all night to Berkeley, Alameda Co., Calif  
3:30 pm after a sky full of beautiful  
high cirrus clouds, now clear —  
faint in sun - 62°F 4:04 fox sq. not  
fully ad. size good pelage & not fat.
- 18 Nov clear - few bands of high clouds  
to W. 9:37 am 47°F. 11:52 am N-S bank of high  
clouds: SW-N; no wind now.
- 19 Nov clear all day in low 50's very quiet  
few high clouds as N-S stringers.
- 20 Nov 7:30 - 8:27 am light drizzle -  
streets, etc are wet, overcast 46°F  
caught a full tailed Fox sq. & took  
to N. Berkeley library on way to breakfast  
at 7:30 ± AM. think this was a <sup>big</sup> ♀ -  
so I've caught 3 & named. 9:35 am  
lighter & drizzle almost stopped. 10:55  
am. overcast, no drizzle, 51°F. 3:pm overcast  
52°F. Fox sq. - there is another small one!  
cloudy all day. at 7:27 pm 47°F
- 21 Nov heavy & thin to hazy high clouds, no  
shadows, at 8:24 am 46°F. Caught the  
second smaller young Fox sq. & taken &  
released at Nible Creek at 8:20 am. See  
theory that leaves: (?) the fat ad. ♀ and  
the 1/2 tailed ♂! 12:59 pm half dozen robins in  
elms, Plaintif & chickadees in as well as  
Br towhee, House Finches, a few golden crests  
Townsend Warbler in oak - a call from ♂ is  
making in, complete overcast. This burst  
of activity! Even a hermit thrush came  
in briefly to look around. few waxwings in  
elm 1:54 lark-tits in oak & 3 doves in. 3:43 pm  
52°F getting darker.



Hustman  
1988

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21 Nov., del Norte St., Berkeley, Alameda Co., Calif.  
5:11 pm big, cold rain drops, then a light  
drizzle.

22 Nov. light rain all night at 7 & 8:16  
am. 52° F. 8:18 drizzle overcast. Yesterday  
the short tailed Fox Sq. was on ledge & this  
a.m. saw a long tailed Fox Sq. in the W. elm.  
House finches & chickadees in by 8:30 am.  
at 10:30 am rain fall since 5:11 pm yesterday  
= .44" light rain, a little wind. Short tailed  
Fox Sq. in - it is very fat. No robins seen this  
a.m. chickadees active in oak - Pitts. 1 pm  
harder rain, 54° F, 2 flocks of C. waxwings &  
several gulls. S wind, rain at 4:50 L. First  
clump of mushrooms at base of W. elm next to  
the sidewalk. Foraging or perched in rain:  
House finches, chickadees, Br. towhees & G-C  
sparrows, & doves. rain lighter now. 4:03 pm  
55° F getting dark early! almost stopped raining  
at 5 rain fall since 10:30 am = .42

no rain at 7 pm. Light & rain during nite

23 Nov. at 7:30 am light rain; holes in clouds  
8-9 am 46° F. 8:57 am 1 tit mouse, 2? chickadees  
& 2 Kinglets in oak. 9:39 am the short-tailed  
Fox Sq. on ledge facing W. (it looks like  
a miniature Marmoset its so fat) - the  
grizzled brown coat; tail dangling and  
the posterior sides of EARS a bright  
orange! The back of ears is interesting  
The individual is fearless - jumped  
upon window ledge & stared at me!  
9:54 am a fat large full tailed Fox Sq. in - a ♀?  
Sennat - clouds rising N. 10:06 a bright  
morning, 75% sun, sharp to dull shadows



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23 Nov. del Norte St. Berkeley, Alameda Co., CA

10:19 am clear to SW - NW clouds to E. 51°F

11:10 am bright sparkling day, 52°F, of few fluffy cumuli. There was a lot of bird activity until about 9+; none now, no nothing!! What are the activity patterns/weather?

Rain 5 pm yesterday to this 8 am = .76

so total for 2 days 1.62" of rain. 12:41 pm 90% huge cumulus clouds & some wind. One heavy short shower at 12:30 51°F at 1:49 p.

2 pm a small ♂ Fat sp. in to feed - dim sure this is one & released! its familiar with the layout! Did it go near the trap.

3:47 pm caught the squirrel with short tail & took it to the "Nature Area" in Tilden Park

- just got home & there was another Fat sp. with a short tail. So there are 2

- ~~some make it back from N. Park~~ the tail looks short - its just not as long.

4:34 almost clear, of few fluffy - small cumuli

48°F. Ravens feeding

24 NOV mackerel sky - clouds from W. a huge thunder head WNW in Marin Co., 44°F. Rain last night. 22"

to Palo Alto about noon. Was surprised to see several good sized flocks of starlings flying about Anna's neighborhood 50± & landing in redwoods. light rain there after 5 pm [Rain measured on 25th Berks .33"]

25 Nov back home at 11:30 am complete cloud cover then broken cloud cover in early pm.

A new ad lig - tho not fat ad. a good tail.

So is this the "instant" ♂ replacement for 1/2 tail ♂ that went to Tilden?



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26 Nov., del Norte St., Berkeley, Alameda Co., Calif  
clear, at 9:14 am  $48^{\circ}\text{F}$ . This am has been  
dull - the new ♂ Fox Sq. & a young one  
in briefly. No robins, a few House Finches  
briefly, a jay in top of NW elm, a chickadee  
briefly. Of course the towhees about  
for awhile. There is food out. Doves in  
very early. At 11 am  $52^{\circ}\text{F}$ , ds the inactivity  
due to temperature - high pressure regime.  
Today until about 2 pm a few fluffy cumulus  
clouds overhead & a haul of cumuli up &  
down coast WNW to SW  $70^{\circ}\text{F}$  in sun upstairs  
Sundace n at 4:52 pm at  $51^{\circ}\text{F}$ , doves <sup>are last to</sup> leave.

27 Nov clear 9:21 am =  $46^{\circ}\text{F}$  one ad Fox Sq. in to  
feed & another ad in up SE elm out on 1" branches.  
10 am for an hr. + a few high thin clouds have  
moved from WNW to almost over head.

28 Nov Fog, started clearing 8 am overhead,  
thick over hills & to W. 8:45 am  $47^{\circ}\text{F}$ . Doves  
in early. Fog drifting in from N, sun only  
spottily. Essentially clear by 10:30 breeze  
 $53^{\circ}\text{F}$ . at 11:30 am

29 Nov wind came up about 3:30 am - bright  
clear day, strong winds  $51^{\circ}\text{F}$  (10:15 am) with  
a few high clouds to S & NW. No birds about  
4:05 a breeze,  $57^{\circ}\text{F}$  high filmy bands & mares  
tails from NW, a very windy day, branches on SE.  
4:35 pm 61 towhee, kinglet, quiet jay, chickadee,  
house finches & 15 doves in to feed. almost sunset.

30 Nov. absolutely clear, windy, 8:52 am =  $52^{\circ}\text{F}$   
9:58 am 2 Fox Sq. in separately - small - some  
what ratty tail, a bit larger the small, good  
tail. 10:01 am both in at one time. Yesterday  
got a brief glimpse of a Monarch (or was it a



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1988

Journal

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30 Nov., del Norte St., Berkeley Alameda Co., Calif.  
Viceroy butterfly - (?) it was during  
high wind & disappeared into Pittos trees,  
10:12 am. a light breeze - only bird seen  
to day is the juncos into feed; doves in  
at 7 am. No house finches, or robins, etc.  
10:25 am caught one of ~~house~~ <sup>ruby</sup> tailed small  
one & took it to same place in Tilden.

When I got home at 10:50 the other one  
was still on the landing! I'll get it  
soon! 11:36 am Fox Sq. is eating millet by hand-  
fulls. Late P.M. = House F., doves, chickadee (1) —

1 Dec 8 am 43° F clear with high wispy clouds,  
at 8:31 3 robins in elms & 1 house finch in. No  
wind. Caught a smaller Fox Sq. to Tilden.

1:26 pm hazy & high clouds, no wind. a  
large Fox sq. in feeding! left at 2:48 pm. By  
theory this is only one left (is it the fat ♀  
? this doesn't appear that fat, full size tail)

2 Dec. hazy, high sketchy clouds, no or soft  
shadows; no breeze, no birds at 8:30  
am +. 3 pm after 1 pm an irregular band  
of high clouds, almost a bank in from  
W, moving N. but not overhead. Big Fox  
sq. in this am at 8 am, few House finches &  
chickadees to feed; few doves; only 1 or 2  
robins early on — an extremely quiet  
day.

3 Dec 8:52 am clear, high clouds to W. some stiff  
breezes. See parasitism. No finches in  
nor doves (who were in at dawn 7 am).  
very quiet day except for parids.

4 Dec 9:30 am 50° F clear (some cumulus S & SE and  
large off to W. 57° F at 1:24 pm clear, no wind.



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1988

Journal

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4 Dec., del Norte St., Berkeley, Alameda Co., Calif.

1:24 pm a robust large Fox Sq. with full tail has been in earlier than a large one with half a tail came in! I can't believe it. I've moved it twice!

5 Dec 9:27 am clear, cool =  $49^{\circ}\text{F}$ ; hazy etc to W. Ravens in early 15-20. The large persistent full tailed Fox Sq in (it was running thru the oaks yesterday at Green set). 9:59 ( $51^{\circ}\text{F}$ ) The same Fox Sq. was, for 15 minutes +, on an irregular vertical branch of the 13" diam across 1-1' diam trunk, 20' from ground. 4/3 time in sun facing S, then facing N (warming up in sun?) then it up branches 30-40' on 5" branches. 10:21 am short tailed Fox Sq. in feeding - are there more than one?

10:25 am a bank of high, hazy clouds is moving in from SW - NW over tops of dunes now.

No wind this a.m. 11:44 am clouds overhead, indistinct, heavier to SW behind my cedar.

1:27 pm clouds moving S.; 50 - 85% cloud cover.

2:50 pm  $60^{\circ}\text{F}$  clouds hit heavier. 1/2 tailed Fox Sq. into feed.

6 Dec. complete cover of high hazy clouds - soft shadows, 10:41 am =  $57^{\circ}\text{F}$ . 4:45 pm fog horns! very thin hazy high clouds, getting clear.

7 Dec clear night here, wind in early am 1-2 am  $\pm$ . Clear & bright 10 am =  $58^{\circ}\text{F}$ . Caught a short tailed Fox Sq. & took to tiller.

One remaining Fox Sq. by therapy, 3:45 pm light variable breezes, brilliantly clear,  $70^{\circ}\text{F}$ , 1 robin in top of upland cedar feeding; doves (12), towhees, chickadees & house finches.



Christman  
1988

Journal

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- 8 Dec, del Norte St., Berkeley, Alameda Co., Cal.  
clear, a few bright high clouds to E, E wind  
8:28 am 54°F. 8:33 am about 20 gulls  
(sp?) circling & gaining elevation 100+ yds  
to NW & disappeared to N. This a.m. heard  
a robin "tucking" briefly, RFF Br. towhee  
— no other birds, except waxwings flying &  
one house finch in NW elm briefly. 12:36 pm  
sunny, breeze, 65°F — a monarch  
butterfly flew vigorously over Pittos & then  
corner of house to S! late, what? 1:52  
pm chickadee in & longtailed Fox Sq in up at  
dusk.
- 11 Dec a few high clouds, thin fog to W early, <sup>all</sup> hazy day
- 12 Dec clear, hazy horizon to W., 49°F moving  
yesterday and this a.m. at 9:21 am Fox in high  
canopy of oak. Entire & sub branches move.  
11:08 am two full tailed Fox Sq in at one  
time. 1:30 pm caught a Fox Sq. & took  
it to Tilden Park (same place as others)  
it had a full tail, fully adult.
- 13 Dec. clear with a few high clouds. at 8:55  
am 45°F. at 8:30 a fox sq. came into ~~for~~  
cedar via W elms from Pittos. & across  
the st.; then into my oak.
- 14 Dec clear, cold. Last night (4:45 pm) saw  
TWO Fox Sq in the oak. 3:51 pm clear, 64°F  
doves, juncos, chickadees, house finch towhees  
in to feed.
- 15 Dec. Last night very heavy winds from NW-NE  
 gusts were extremely strong. In a.m. 1" +  
branches from elms across street. At 10 am  
48°F. Damage on Guelano ave. 1 house finch in top of  
NW elm; flock of waxwings swished by fast



Christman  
1988

Journal

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15 Dec., del Norte St. Berkeley, Alameda Co., Calif

The Millen is swaying violently & the new 2 house finch stick till they flee down to Pittos.

16 Dec multi layers of clouds from SE (there is a low over southern Calif) with 50-90% cloud cover; no wind. at 9:58 am 48° F. 11:40 am general overcast, no breezes. 2:21 pm variable clouds, many layers 56° F. Little bird activity.

17 Dec high clouds & layers a cumulo-nimbus 9 am = 49° F. 12:41 pm a blue dragon fly cruising about acb & Pittos! 4:31 pm - 11 doves, 3 house finches in; 1 B towhee (first today); 1 kinglet in acb - a very quiet day. Misc clouds, 50% cover.

18 Dec 8-9 am 98% cloud cover, very light sprinkles on deck & wind shield. 45° F 10:57 am 75% layer clear, dull shadows & thin clouds to SE, etc. 48° F little bird activity 1 pm complete cloud cover, no wind. Continued cloudiness - for last several days a low pressure area over S. Cal. & clouds coming up coast clockwise - heavy snow on Gaspere Pass & general rain down there. 7:12 = 43° F.

19 Dec started light rain 3 am ±, at 9:30 am 45° F light steady rain at 10:30 am. Rain stopped about 1 pm. low clouds rest of day, etc.

20 Dec. cloudy at 7:30 am 2 sprinkles (large cold drops) at 9:30 am. 11:55 am steady, moderate rain. no birds except one towhee (RFF). 12:24 pm 46° F. = towhee, one dove & chickadee to feeder. Rainfall - 12:30 pm (including yesterday) is .55 A.



Christman  
1988

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21 Dec., del Norte St., Berkeley, Alameda Co. Cal.  
scattered cumulus clouds from SW  
after nearly full cover. Sprinkler at  
8 am, 45°F. light breeze. clouds all day  
with a few showers.

22 Dec 8:40 am 42°F. started rain during  
night at 7 am a good solid rain - the  
rain gauge = .92" at this time since  
yesterday early. slight wind By 10 am  
let up to a light rain & 44°F. 1:04 pm  
chunks of blue sky & sun out briefly. at 1:10  
rain gauge = .25; so this one storm = 1.17"!  
4:23 pm clouds, cumulus from NW.

23 Dec high thin clouds, gray a.m., 9:13 am  
38°F. Salvia - 3 in trees. Drive to

Palo Alto about 2 pm. a storm coming in

~~on~~ 24 Dec Rain over night and cumulus  
clouds from N all day and several showers.

25 Dec more cumulus clouds in a.m. &  
pretty well cleared up by noon. I left  
P.A. at 2:15 pm with clear sky over the bay  
and cumulus to thunderheads over the  
hills especially in Alameda Co. Snow on  
hills S of Tules Canyon - the Hamilton Range.  
There were some loud thunderclaps early  
last evening. Home by 3:30 clear. 58°F in  
the sun. House is cold. 6:38 pm 36°F.

26 Dec clear, COLD, Frost on roofs,  
etc 29°F at 6:30 am. noon 43°F a big  
♂ Fox Sq. in feeding - the end of tail is  
rather thin. 2:30 pm another ad Fox Sq - full  
bushy tail. 4:20 pm high clouds on W horizon; 45°F  
Rain fall from 23-25 Dec (while in P.A.) = .87" and  
on.



Christman  
1988

Journal

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27 Dec., Del Norte St., Berkeley, Alameda Co., Calif  
wake up at 6:30 to pecking of feeding doves  
and rain drops! Rain, some rather moderate,  
till 10:30 am. Then sky opened to scattered  
cumulus clouds 11:28 am = 39°F. 12:10 pm  
light cold sprinkles again. 2:23 pm since  
daylight 3 separate showers with  
breaks in between - large cold drops.  
= 40°F. Only one robin activity today: doves  
into feed early, house finches, chickadees &  
juncos in at times. 4:42 pm clouds from N; 42°F  
Rainfall = .54"

28 Dec wind during the night at daylight  
wind & low cumulus clouds out at NE -  
a stiff cold wind, at 9:30 am 34°F. 1:04  
pm fewer clouds, still a breeze but not  
as strong. 39°F

29 Dec clear except for a few bands of high  
clouds to W. At 8:30 = 32°F. Frost on roofs,  
grass & cars. 9:25 am a big Fox Sq. in chases  
off; kept coming back so caught it. Entire  
W horizon is a band of haze - high clouds  
(a storm is due in tomorrow & might  
be an especially cold one). 10:07 another  
Fox Sq. in - the one with thin end of tail.  
11:17 am took Fox Sq. to Tilden Park, when I  
got back the other one was in feeding. The  
one caught was a ♂. 11:40 am the edge of  
the high clouds/haze is almost overhead  
3:50 pm just back from taking the last Fox Sq.  
to Tilden - by theory this is the last of the local.  
Let's see how long this habitat will be empty.

30 Dec scattered clouds 42°F at 9:19 am At  
7:30 am a Fox Sq. came down the drain pipe.



30 Dec., del Norte St., Berkeley, Alameda Co., Calif  
continued - it was as large as the 2 latest  
caught. loaded away at 9:30 am. and  
a Fox Sq. going between elm trees up the  
street! breeze from SW - clouds also  
still broken cumulus 75% cloud cover.

11:am temp dropped to  $46^{\circ}\text{F}$  11:15 am complete  
cloud cover,  $48^{\circ}\text{F}$ . 12:15 sky a uniform  
gray, intermittent breeze. The first sprinkles  
1:30 pm light rain, now 3:37 moderate rain  
only slight breeze. Rain lightened up by 5:30  
pm total rain fall per the day = .32" at 6 pm.

31 Dec scattered cumulus clouds  $48^{\circ}\text{F}$ , not  
as cool, but everything wet. Fox Sq in at 7:50  
& left quickly - didn't go into trap 10 am clouds  
- 90% + from N. almost complete cover at noon  
2:40 pm almost clear,  $45^{\circ}\text{F}$ .

1 Jan 90% clear,  $32^{\circ}\text{F}$  frost on roofs clear  
most of day & cool all day.

2 Jan. at 9 am 90% cloud cover; 80% clear at  
10:30 am at  $42^{\circ}\text{F}$ . 11:51 am  $47^{\circ}\text{F}$ . Noon -  
thin bands of clouds to SW to NE =  $50^{\circ}\text{F}$ .

2:09 pm mackerel sky streaks of blue to W. I  
have not seen a Fox Sq. since yesterday (31). Not  
in early this am. I mate too fast. It came  
in at 3:48 pm - at 4:10 in oap. Will trap  
tomorrow

3 Jan clear cool. 10:25 am  $45^{\circ}\text{F}$ . no wind. 10:40  
pm Fox Sq. coming thru elms from the circle area  
to N middle section of NW elm. came in about  
noon. 4 PM - clear & windy.

4 Jan. clear, 10:48 am  $42^{\circ}\text{F}$ . Now there are 2 Fox Sq.  
one considerably smaller than ♂ which is trap shy,  
and is now jumping up to D-4 feeder & it is talking  
to me - still clear at 4 pm  $54^{\circ}\text{F}$ . 4:30 pm mackerel  
clouds to W.



- 5 Jan., del Norte St., Berkeley, Alameda Co., CA  
started light rain about 1:30 am and  
very heavy about 3 am = 1.08" scattered  
clouds by 11 - 45°F. 3:32 pm. a few cumulus  
from W. The Brall-Yankee Chirrel = 2  
c-b chickadee & 5 House finches (2 ♂, one  
very deep bright red). Then 2 juncos in Pittos  
— they are always on the landing & now  
perching where the H.F. frequently do.
- 6 Jan clear till 12:30 pm scattered cumulus  
& some high clouds. 45°F. 1:23 pm almost  
complete dark cumulus cloud cover. 1:30  
— caught another Fox Sq. & took it to Tilden  
(I hope this is the aggressive one than has  
taken up hang on the feeder - D-4.) clouds  
are lowering. 3:09 this storm front is  
lower than most & seems to be from NW.  
3:34 very light rain, briefly. — quit immediately  
4:49 now shift - clouds from S. light rain by 6 pm  
rain during the night. rain fall = .10"
- 7 Jan clear at 7:30 am except for banks of  
fog over hills 35°F no frost about. Big  
chunks of fog (or clouds?) from N to S. 10:47  
am 40°F almost clear, some small cumuli  
2:10 = 45°F A Fox Sq came in early & saw one  
in oak/cedar at noon.
- 8 Jan light rain till 9 am cold & cloudy all day  
caught a Fox Sq. just before dark
- 9 Jan cold & wet, a trace of rain; a Fox Sq.  
came in — took the one I caught to Tilden.  
overcast, at 11:23 am 47°F. Sq. trap to M. Erlich
- 10 Jan light rain till 8:30 am then variable  
clouds 12:45 pm 51°F, a breeze, cumulus from N  
and a few high clouds almost clear until 3 when  
dark cloud over hills (NE), then a full 1/2 rain over  
dark clouds, light rain 3:45 pm.



12 Jan., del Norte St. Berkeley, Alameda Co., Calif  
clear cool (9:31 am = 42°F) a intermittent  
breeze - a few high clouds on horizon -  
basically clear & cool. 7 pm = 42°F

## Rain Fall totals

Jan - 1987 =  
Sept - Dec. 1987 =  
Jan - May 1988 = 6.90"

13 Jan at 7 am scattered clouds at different  
levels. 8:20 complete cloud cover - looks  
like fog. 38°F. 9:13 Fox Sq. down sidewalk  
to first big up st. elm on W side of street &  
up trunk. Fog or clouds from W & S. 3:30 getting  
darker - cloud cover all day. 4:06 light  
rain - 7 doves, 2 juncos, 2 Br. towhees &  
House Finches feeding. Lasted till 5 pm  
then broken clouds.

14 Jan clear & cold 42°F at 11:11 am.

15 Jan scattered clouds cool, 45°F at 12:01 pm  
Fox Sq. in at dawn. 12: fox sq. down st. to W  
up st. elm - up it across NW elm to oak  
should be here in 10 ± minutes. 12:08 a thud  
on roof & Fox Sq. down drain pipe. 1 pm another  
Fox Sq. - tail not as full.

16 Jan 9:54 am 42°F

17 Jan heavy low fog, cold; clear overhead at  
noon & completely clear by 3 pm gone most  
of day.

18 Jan 10 am = 49°F clear & warm. Fox Sq. in.

12:54 pm 60°F clear, high clouds to NW.

19 Jan clear, 10:14 am 56°F; high filing clouds to W  
Fox Sq. in early.



Christman  
1989

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20 Jan, del Norte St, Berkeley, Alameda Co., cal  
hazy both high & low, high thin clouds  
gentle S. wind.

21 Jan Fog all day; in late afternoon it was  
clouds - not so cold. little activity

22 Jan cloudy all day. Frost all day.

23 Jan a light rain started about 1 am, continued  
til 8 am  $\pm$  same wind, but rain gentle

Rainfall .45 Variable clouds from N, clearing 4 pm

24 Jan clear 43°F at 10 am high clouds to W.  
Lots of dew last night, dripping from eaves.

25 Jan. clear, same wind at night, 8:48 am 45°F  
long streamers of high clouds to W. 11:00 = 50°F  
with more high clouds. 2:21 pm 58°F, breezy,  
50% high clouds,

26 Jan clear, 49°F at 9:30 am breezy at night &  
morning. 11:31 am 53°F, little breeze now.  
Fox Sp. in to feed - persistent S.O.B.

Nice warm afternoon

27 Jan clear, cool, dew & fog about horizon  
no doves in. At 8:28 = 37°F! 9:30 a  
fair sized light brown bird flew fast &  
50' over rd. to SW & landed in tree a  
100 yds SW. Only 2 doves seen this  
entire am. they flew wane tops of trees  
as an accipiter, hanging around?  
10:23 am 44°F. band of haze - high clouds  
NW-S., cast shadows now.

28 Jan high dull fog, 45°F. clearing by 1 pm  
49°F. high clouds; fog returning at 3:30. 4:15 = 50°F  
was up to 60 at 2:30 - little activity today.

Sunny low & then haze to SW at 4:30 overcast W-N.

29 Jan fog developed night; low dense fog at  
7 am with Robins singing. 7:20 clear over head  
7:45 a NE breeze, no fog! 5-10% cirrus. 9:55 53°F  
10:30 am 8  $\pm$  gulls rather low flying to NW.



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1988

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29 Jan., del Norte St., Berkeley, Alameda Co., Calif.

10:40 breeze larger, limb moving. a few cirrus clouds. 11 am ♂ Fox Spangled in. - one at 7:20 also. = 57°F 1 pm hazy clear for a few cirrus.

30 Jan 8:19 am 43°F. Clear & calm no fog no clouds. The pink plum tree 10' N of NW corner of house has been in bloom a week and the almond next door to G. is in white bloom! This tree is always spectacular. Have not seen Fox Sq. in elms, etc (oaks) for some weeks now. One or two come in to feed as yesterday about 3. So the ones I transplanted to Tilden have not been replaced as far as extended home range. 1:30 pm clear, now hazy - 60°F. no wind. This pm a morning cloak & Viceroy butterflies 1 each.  
31 Jan low fog, 9:48 = 46°F 3:15 still foggy 50°F a very dull day.

1 Feb 8 am high cirrus, an anamorphous middle layer & a variable low cumulus cover. By 9 almost complete cumulus layer. at 10 getting darker - 46°F. little bird activity on lawn on aerial (TV) next door, one robin and a Kinglet in the oak. 10:45 am break in clouds with some sun - 48°F. 11:28 pm clouding over - wind from SW. very brief shower. 3:30 48°F cumulus from NW. Seen no Fox Sq today. sprinkles about 6 pm.

2 Feb variable cumulus clouds; several showers during night. at 8 am = 0.12" rain & 48°F everything wet. 10:30 - 12:30 steady light rain. scattered cumulus clouds W-E, S to N. no breeze & dark, at 3:49 pm 47°F.



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1989

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3 Feb., del Norte St. Berkeley, Alameda Co., Calif.  
gentle rain off & on all night at  
39°F. at 9 am = .55" rain since yester-  
day at 8 am. Light rain off & on till 3 when  
it was scattered cumulus. finer night

4 Feb scattered cumulus 7:30; by 9 am 90%  
clear. 8 = 31°F; 9 = 34°F no frost or ice.  
mixed clouds and cold. Total alt

5 Feb COLD; absolutely clear. gusts  
of strong wind. Home at 1 pm = 38°F  
outside.

6 Feb 28°F at 8 am, clear, gusty cold NE  
wind. 11:12 am 35°F outside Temp always

7 Feb 9:54 am 33°F clear, windy. 2:49 pm  
46°F still clear, windy & cold.

8 Feb heavy NE wind during night to noon  
8 am high clouds; 10 am clouds thicker &  
lower. Amaying wind from NE; clouds from  
the SW. 11:23 42°F outside. Fox Sq. have been  
in infrequently; none seen lately in oak on  
the elms. 1 pm - wind direction must have  
shifted - the jet planes were coming  
in on approach pattern to the south.  
getting darker. First sprinkles at 1:18 pm!  
still breezy. moderate rain, 39°F, light wind.

3:36 pm windy still, 33°F, puddles about  
town. Rain lightened up to sprinkles by

3:48. Rain tapered off - Rain to 6 pm =

9 Feb 10:32 am. cloudy, 39°F. doudy &  
windy to 8 am. light rain began at 8  
am, no wind. 11:30 am no wind, no rain  
Rain up to noon = .43" 12:30 pm light rain  
no wind. 1:39 sun out thru hole, still clouds.

This storm is from SW, the LOW off So. Calif.

Fox Sq. in & fed on soggy whole wheat bread pieces  
3:14 pm 50% clear, cumulus from S.



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1999

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9 Feb., del Norte St., Berkeley, Alameda Co., CA

4pm 65% clear. in herb patio = 50°F

10 Feb scattered medium clouds, hazy, low  
dew pt. last night, not cold, 44°F at 10 am.

1pm high thin cumulus, same sun, 50°F, no  
wind. 3:16 heavier & darker cumulus; some <sup>Wales</sup> in

11 Feb clear, fog over bay 9 am = 39°F. no wind

The sycamore trees (plane) around N. Berk  
library & on Main ave. have shown new  
green leaves on a branch or so far at least  
a month now. Today many more trees  
have more branches with green leaves.

A reaction to drought?

10:10 am. chunks of fog getting higher & clearer  
SW to NW; now at this angle over tops of  
trees. 43°F. Noon = fog horn still from W.

Some towering cumulus to WNW & the first  
feathery cirrus cloud to NE. 2:30 pm  
cumulus from N & more cirrus. 50°F. sunny.

12 Feb clear, small billowing cumulus far to WNW  
45°F. a bright beautiful day, high 60's of low  
cumulus to N?

13 Feb clear, no bay fog, 42°F (9 am) slight breeze  
a fox sq. with 1/2 + tail in briefly chased off.  
A strange call "Seep" repeated, high, full.  
or "Sue, Sue" almost like a bluebird.

Small birds flying overhead, all directions.  
afternoon Hutton Vireo. A: 4:30 PM - for the first  
time the "spring" a very mobile flock of small  
insects hovering between my desk & the OAK  
within 8' of oak. very small.

14 Feb clear, cool, 43°F at 10 am, hazy low on  
horizon. 10:45 am Fox sq on branch of near cedar  
30' up on 6" limb, 5" from trunk in sun. Twice  
yesterday the oak moved as if Fox sq in it, but didn't  
see it. How many are there now?



Christensen  
1989

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14 Feb, del Norte St, Berkeley, Alameda Co, CA  
many clusters of white flowers about to  
open on the Pittosporum 15' NW of my desk.  
also many insects flying about tree.  
Lots of bright green leaves, new, on these  
the trees too!

15 Feb hazy, some high cirrus 47°F at 11:30 am  
down town all am. early PM, hr. apart 2  
large gulls flying low, from SE to NW & W.  
2:55 pm a bank of high piling clouds to W. hazy  
still, slight breeze.

16 Feb clear, high thin clouds & haze, 8:30  
45°F. hazy clear at 11 am. - 50°F. 2 pm  
bank of high clouds to W. more cirrus SW-NW.

17 Feb 45°F at 9 hazy high clouds on & off all day

18 Feb overcast, a very light mist at 8, same  
wind. 50°F at 10 am. 11 am very light rain  
light rain until 3 ± pm then a bit heavier.

19 Feb cumulus lower 90-95% everything  
wet, sun out periodically in am. 54°F = 10:40  
am. Noon - 2 F at Sq. Running three oaks into  
redwood up in 60's in afternoon clear.

20 Feb Fog, 53°F at noon & some bits of blue  
at 11:30 am. by 1 a bank of high clouds to W, by  
3:30 pm high cirrus, haze & much wet clouds

21 Feb scattered cumulus clouds from S, at  
9:30 am 54°F. Fox Sq. on trunk of 2nd elm  
up st. 9:45 one came in - chased off. One is  
chattering. Sun sun obscured 90% + cloud cover  
thicker cumulus. 10:19 Fox Sq. in clases up st  
elm (W side) one one of main trunks - another 2?  
It then went to lower part of W elm and running  
about limbs 9" - 3" diam. Then up to within 15-20'  
of top on 2" - limbs very active. 12:22 50% blue  
& 61°F. 1:05 pm 95% cloud cover vague shadows.  
almost clear, then by 1:40 high hazy clouds



Christman  
1989

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21 Feb., del Norte St., Berkeley, Alameda Co., Calif  
2:27 pm clear now except for a bank of  
hazy clouds (?) to W. & few cirrus.

22 Feb. To MVZ 8:30 to noon Talked to Frank  
Pitelka - no comment on prominent perch,  
but liked idea of where birds fed in the  
arb - warbler, chickadee, Kinglet &

Overcast - about noon a light drizzle  
at 1 pm a light rain - enough to wet  
street & etc. no rain by 1:15 pm. By 3 fairly  
clear 50% high 50° 50° F.

23 Feb 80+% clear 39° F at 7 am. At 8 clear to W-N  
but high clouds to S. 1:49 pm sunny few cirrus  
54° F clear all of the noon; 6:02 = 49° F, 98% clear.

24 Feb. variable clouds from SW; 8:14 = 45° F  
broken overcast at 10 am. Same all day.

25 Feb Satur. Variable clouds - all kinds from  
S. a sudden shower at 8:30 on Solano. at  
9 am 50° F. few drops here. 9:30 getting darker,  
N-S to W is 100% cloud cover, no wind. 10 am  
a variable wind & light sprinkles. Small Fox Sq.  
with 2/3 tail. Lightened up in 15 min. then higher  
altocumulus, 75% clouds. 11:45 am 58° F outside.  
6:19 sundown awhile - 1/4 sky is broken clouds.

26 Feb 10:21 am a clear quiet day; 55° F.  
noon still clear; 60° F off to SW a bank of hazy clouds  
1:01 pm 3 gulls circling higher, higher to NW.

27 Feb 9:35 clear, 51° F few high clouds S.  
Yesterday at 4+ pm Fox Sq with short tail  
in clus down st. eating new growth near  
end of branches also saw one up the st  
in elm.

1 Mar cloudy at 7 am. light sprinkles at 1 pm  
3:30 more sprinkles & heavier. 3:45 its now an  
'official' rain. Consistent moderate rain all night

2 Mar by 8 am = 1.49" of rain fall.



Christman  
1989

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2 Mar., del Norte St., Berkeley, Alameda Co., Calif  
clouds moving thru from SW. after  
draps. after noon more wind & clouds  
moving faster; few small patches of blue.  
1:50 pm = 46°F outside. 6:30 clear ahead,  
bank of clouds to W-NW. = 41°F outside.

3 Mar Clear cool, back from MVZ 1:30 pm  
54°F. bank of cirrus clouds NW to S, all afternoon

4 Mar. overcast at 7:30 am 45°F, very light  
sprinkles at 9 am. General light rain by  
11 am. Fox & sq. full tail in rain feeding on  
sunfl. seeds. noon - very slight rain. The  
rain stopped by 2 pm. 4 pm cloud cover getting  
uniform gray & darker - some sun out at 2:30.  
5:15 a little wind & rain again - lite 46°F  
7:15 light rain; 42°F.

5 Mar light rain began 6 am moderate  
by 8; stopped about 9, rather wet & foggy.  
rain in night - ? .17" rain

6 Mar overcast - a break briefly at noon -  
2:06 = 59°F. rain gauge = .28" since <sup>yesterday</sup> noon  
light rain began at about 2 pm.

7 Mar a low heavy fog. cleared by noon  
with hazy high clouds & cumuli. Saw a  
partial eclipse of sun 9 ± am, at 1:30 pm  
at home consistent cloud cover. 2:30 first  
light sprinkles, by 3 a moderate-light rain,  
56°F. 3:44 in rain = chidabee Pittos. to feeder,  
House finches in tops of elms, teachers on  
utility line. .10 rain from last to 8 am 8th  
8 Mar light to moderate rain all am = .24" by  
noon. 6:04 solid cloud cover.

100. 10. 8. 1900. 10. 1. 1901.

100. 10. 8. 1900. 10. 1. 1901.

## Journal

9 Mar., del Norte St., Berkeley, Alameda Co., CA.  
 low cloud cover, 9:55 = 56°F same wind  
 no rain. 10:30 am very light rain & wind  
 106 suddenly a general down pour  
 with wind. - over in 5 minutes! 2:05 pm  
 another shower. 2:08 a huge, tho  
 very strong, cur flight of robins &  
 cedar waxwings from W to E. no tight  
 flocks - these! trace of rain

10 Mar. cloudy 3 pm = 64°F  
 a brief spat of rain (a shower) at 2 pm  
 from SE. inadequately heavy shower at 4:30

11 Mar. at 7:30 am sun out - variable clouds  
 (cumulus). Rain most of night = .92". at  
 9:06 = 56°F. Sun to E; all clouds S-to-N!  
 noon - almost clear! 1:50 sunny 95% clear,  
 = 59°F. 2:53 bank of fog off coast & chunks  
 of fog materializing almost overhead &  
 moving NE, 4:05 pm high fog cover; 62°F  
 4:18 fog lower to top of up st cedar 54°F.

12 Mar. low fog at 7:30 am. essentially clear  
 by 9 with a fog bank far to W & one small  
 linger of cirrus to S. 10:36 = 55°F. caught  
 a Fox Sp. - to Tilden. 12:22 pm huge thunder  
 heads forming in Marin or Sonoma  
 county to the NW. (this since about 10:30)  
 1:08 pm cirrus - feathery from S; thunderheads  
 moving N more. = 58°F. 4:41 pm clouds & fog  
 coming in over 50% cover 58°F.

13 Mar. shower last night (2 am ±) under  
 .05. 7 am scattered clouds; 9 am cumulus from NW  
 & 48°F. a clear warm day - almost spring. 70's  
 Fox Sp. feeding way out on horiz. branch, N end of W. elm



14

14 Mar, del Norte St., Berkeley, Alameda Co., Calif.  
clear 9 am:  $46^{\circ}$  F very little wind. 7:34 am  
Fox Sq. on ledge briefly (trap stuck in  
the car). 12:45 pm  $55^{\circ}$  F.

15 Mar clear, 9:04 am  $44^{\circ}$  F clear & cool  
all day. Fog bank over SF - Marinco hills  
& puffs are materializing to western sky  
& piling up on hills to N & E. 6:36 pm after  
sunset, almost dark, only scattered bits of fog to N.

16 Mar. 2 am raining on to 9 ± then partial  
clearing - a good solid rain = .94" at  
9 am. 1 pm bright sun & deep blue sky with  
fluffy cumulus clouds - will be thunder-  
heads building up soon.

17 Mar. trace of rain last night. Scattered  
cumulus clouds early. by 8:30 high cirrus  
as an overcast, dull sun. Variable clouds  
all day. Platanus & ycamore trees in this  
area. - Marine, etc. are almost completely  
leafed out now - rapidly this past week

18 Mar light rain at 2 am.; light to  
moderate 6-9 am. 11:15 am a good  
moderate drenching. Sawbees out in  
it, hence. finches under branches of  
Pittos. The Pittosporum is blooming (small  
white flower clusters) on NE side of tree.  
Rain last night to noon = .66"

cloudy all afternoon with a light drizzle.  
4:24 pm. now a light rain.

19 Mar light rain over night; to 8:30 = .53"

low clouds & fog with drizzle. Fox Sq.  
either 1 in twice or two! 1 dove in early.

11 am first sun & shadows; clouds are breaking  
up!



Christman  
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20 Mar., del Norte St., Berkeley, Alameda Co., Calif.

clear;  $53^{\circ}\text{F}$  at 8:45 am. 11:11 am  $62^{\circ}\text{F}$  outside  
Fox sq (in to feed at 8:30 am) now in up st  
elm. clear until 12:20 then cirrus clouds in  
lower band N-S to the W.

21 Mar clear with clouds to W at 3:30 am  
at 7 am complete fog cover, 9:37 am  $59^{\circ}\text{F}$ .  
about 9 fog lifted to mid level cumulus cloud  
cover, generally dull shadows. 1:57 =  $65^{\circ}\text{F}$  outside.

2:30 pm same long low patches of blue to  
SW & W. still very diffuse shadows. 4:05 pm  
fog over bay; bright sun, far fewer clouds.

22 Mar. Fog. 9 am =  $54^{\circ}\text{F}$  full moon thru  
the fog in early am. Robin singing 4-5  
am & excited "chucks". By 11 practically  
clear - bands of diffuse cirrus to W. a lot of  
haze in afternoon - fog coming in by 4 pm  
cirrus overhead.

23 Mar 7 am, same patchy fog, cirrus and  
mid level cumulus. 8 am general  
overcast 8:34 =  $48^{\circ}\text{F}$  Fox sq on landing  
3:37 pm. low cloud cover - feels like rain  
but its light to SW. 5:40 PM light sprinkle  
of rain.  $54^{\circ}\text{F}$ ; 6:07 a good straight down rain.

24 Mar rain all night .93" at 8 am, when  
it had stopped - complete cloud cover  
at  $52^{\circ}\text{F}$ . 9-10 am variable cumulus clouds to  
NE same blue & some sprinkles. clouded  
over & light sprinkles at 7

25 Mar heavy rain at 6 am - heaviest in 3  
years. Rain stopped at 7:30 am, scattered  
cumulus - .80" over night & overcast  
again - rain to SW.  $52^{\circ}\text{F}$  outside 3 pm almost clear  
at  $57^{\circ}\text{F}$  4:30 wind,  $52^{\circ}\text{F}$  and spotty cumulus



Christman  
1989

Journal

92

- 26 Mar., del Norte St., Berkeley, Alameda Co., Calif.  
clear at 7:30 am. by 9 high hazy overcast  
shadows a bit fuzzy. 10:05 am Fox  
Gg. = for first time this year one in  
oak feeding on new growth! 11:13  
am. overall dull light gray high overcast, -  
shadows, but very soft. now no bird activity.  
1:14 pm sky is darker - 2:10 gusts of wind  
from S & planes coming in from N, more  
defined darker & lighter areas in clouds  
now - not overall haze, no shadows  
54°F. 3:06 pm 52°F still, but frequent gentle  
gusts. narrow range of dark in light values  
in the clouds - often ~~white~~ against darker gray  
when it starts raining the gray will  
flatten out to one gray. 6:05 a light  
sprinkle started. 6:44 no real rain; clouds  
heavy & discernable from SW.
- 27 Mar 6:17 am a "V" formation of geese to  
NW - about 10, in distance.
- 27 Mar patchy - disconnected low  
clouds at 8:23 am 52°F sunny 5:11 =  
also. scattered clouds & clear sky all day 55°F
- 28 Mar light rain at 7 am; stopped by 7:45  
9: light drizzle. 11:12 am periods of drizzle  
now lighting up a bit & edges of clouds  
are discernable. Apple tree just sprouted leaves.  
1:22 first spots of sky to SW. 2:15 pm clouds  
to N from S - SW - several layers. 5-10% blue.  
3 mas low cumulus to NE; huge streamers  
of cirrus N to S. & high stuff - - 50% blue  
60°F bright slanting sun - house finches singing  
& plain titmouse calling. 3:45 low cumulus (or  
fog) in patches from SW. dark sharp shadows.



Christman  
1989

# Journal

93

28 Mar., ~~Adelaide St.~~ Berkeley, Alameda Co., Cal.  
at 6pm .579 inch rain - not that much  
in it last night, storm i.e., from last storm  
as a cat pissed in it. *puen sahe*.

29 Mar buds on terminals on all elms  
clear at 8:30 am 48°F. 10:16 am = 53°F *Faintly*

30 Mar 10:51 am - 54°F Mainly clear with  
few cirrus from SW. Since 2 pm more  
periods of high hazy cirrus 4:29 a Fox sp. ran  
down sidewalk from elm up st to W. elm.  
Then another in the up st elms going W. then at  
6:27 for the last 1/2 hr. horizontal bands of  
cirrus SW to NE. a storm due tomorrow  
probably not much.

31 Mar. low over cast with just a hint of  
a mist. 8:26 = 53°F "fog" level 200 yds  
up the hill. More bird activity this a.m.  
robins, house finches & towhees. as of 9 am  
no small stuff - chickadees, titmouse or  
warblers. 11:53 am patches of blue to S-W.  
high cirrus, cumulus & low fog stuff.  
Left about 12:30 for Palo Alto

1 April - returned home at 1:30 overcast of  
all level of clouds except fog. 1:45 = 56°F.

2:25 pm light sprinkle. 4:16 big drops for  
a while but no real rain. stopped by noon.

sprinkles again at 6:30

2 Apr. fog or low clouds. 53°F 10:15 am fog  
now low - tops of elms & up st cedar are  
gray - not sprinkling or drizzle though.  
Only a trace (.05 ±) of rain last night.  
a brief shower, then raised a bit, minor clearing  
to the W. highlands above these ~~clouds~~ <sup>fog</sup>.

DAY LIGHT SAVING TIME

1962-1963

Christman  
1989

Journal

91

3 Apr. del Norte St., Berkeley, Alameda Co., cal.  
clear, high cirrus to NE  $48^{\circ}\text{F}$ . Mainly  
clear - a few streamers of cirrus mid-day  
into  $70^{\circ}\text{F}$ 's this pm.

aside from towhee & a few house  
finches no bird activity today! are  
they all building nests - ?

4 Apr. clear 9:30 am  $57^{\circ}\text{F}$  3 pm  $72^{\circ}\text{F}$   
whiffs of cirrus from W. Very quiet  
day. 6:56 pm  $74^{\circ}\text{F}$  bands of high cirrus W-NW.  
same doves in + 2 house finches in NW elm.  
It's been a very quiet day - today saw  
a small very dark swallow tail B & a viceroy  
or monarch fly by - guess it's spring!

5 Apr. clear & warm early - 2:55 pm  $82^{\circ}\text{F}$   
occasional breeze from E. a few high  
cirrus at 7:40 pm =  $78^{\circ}\text{F}$  Record temps all about.

6 Apr. clear - out in sun but by 9 am only  
 $65^{\circ}\text{F}$  here in shade 11:45 am - monarch  
over oak then under NW elm

7 Apr. clear & hot all day - in 80's OUTTAKE DAY.  
apple in pink blossoms on the 5<sup>th</sup>, open today

8 Apr. clear going to be hot again.

[on the 4<sup>th</sup> Apr. the new pink blossoms on  
the apple tree appeared. now open - white.

1:51 pm monarch butterfly - low to NW  
below level of oak - just above apple tree.

2:51  $86^{\circ}\text{F}$ . first Tipulidae flying, bathos

9 Apr. clear, but for high cirrus W to N.  $62^{\circ}\text{F}$

at 8:24 am. bands of high cirrus SW to N at

6:34 pm =  $74^{\circ}\text{F}$

10 Apr. clear, dew dripping from roof; at 8:20  
-  $54^{\circ}\text{F}$ . no high clouds. 12:30 a little hazy &  
high clouds to W;  $62^{\circ}\text{F}$ . a nice breeze



Christman  
1989

Journal

92

10 Apr., ~~del Norte St.~~ Berkeley, Alameda Co., CA  
Entire S-N sector high dense clouds, at 6:30  
temp. 60°F.

11 Apr. 50° clear at 8:30; haze to W.  
Yesterday caught Valheman wildbird  
seed & 10 lb.) & 5 lb. of chicken scratch -  
no sunfl. seeds. Put one deck -  
doves in; think Fox Sq. ate the cracked  
corn. 11:30 am long thin cirrus N-S off to W  
and 60°F. 4:12 pm 2 (perhaps 3) Fox Sq. foraging  
in the oak.

12 Apr. Fog, at 8:19 am 51°F. The elms  
are now 3/4 leafed out which changes  
the entire aspect of my view. It is now  
predominantly green. 10:41 am 2 Fox Sq.  
in an landing a thin one with 1/3 tail  
gone that did some scratching & a  
heavier one with full tail - same  
ones that were in oak yesterday &  
this. am. still fog - 58°F. Noon -  
brighter out, but very indistinct shadows.  
12:28 another Fox Sq. thin, back dark with  
a long, thin tail 2-3:30 broken fog &  
high & mid level clouds 70°F; same wind.

13 Apr. 9:37 am Fog, 51°F. 10 am - lots of  
windy movements of trees. Not alot of  
bird activity 11:03 Fox Sq. ♂ feeding in top  
of oak - what are they eating? 12:13 pm  
still fog in from W. 57°F. 3:28 fog, 60°F.  
6:30 same sun from W but broken fog  
65°F. little bird activity - doves, HF, 1 Jay - <sup>like</sup> robins  
14 Apr. Fog; 52°F at 9:38 am 11:28 am a Fox Sq. has  
been feeding actively in oak, E side 7' from top -  
entire limbs move - unlike even jays



Christman  
1989

Journal

93

14 Apr., Del Norte St., Berkeley, Alameda Co., Calif.  
The Fox Eg broke off a small  $\frac{1}{4}$ " branch  
& carried it 24" into a dense part of vertical  
branch - much movement - a like  
size branch fell 3' & lodged on branch  
does it building a nest? Then it disapp-  
eared. Can't see "nest" - area is level  
with my eyes.

15 Apr 6:22 am sky dull overcast blue-dark  
in foreground - robins singing since  
4:13; towhees, jays calling & doves coo-  
ing. Fog, 8 am Fox Eg. foraging in 5 pines at oak 18'  
up. Noon - some overcast - sun out thru holes  
1:30 clear - hazy, especially to W, some high clouds from  
SW. 7:04 Eg in oak. 4: fog coming back in huge globs  
from the west; still sunny. Towhee, doves <sup>to feed</sup> & H.F.

16 Apr fog until 12  $\pm$  now scattered fog  
but sun is out 58°F. Fox Eg. has spent  
most of day feeding in the oak. 3:08 pm  
high clouds in chunks & whiffs of fog.

4:27 pm breeze, a small swallow-tail B.  
thicker high clouds and fog 100% to NE & E.

17 Apr breezy fog at 10:30 am = 53°F Fox  
Eg. in oak & another on landing. By 3  
pretty much apart & continued until dark.

18 Apr half fog half blue at 8 am continued  
clearing, at 9:30 = 55°F. clear all day; 7:03 lots  
of high clouds - hazy sun.

19 Apr high clouds from SW; fog over hazy fog  
hours last night. 8:36 - 56°F. hazy clear with  
high clouds

20 Apr high fog, 54°F at 8:30. 10:10 sun out  
& hole in fog high - hands of high clouds. 11:30 am  
hands of hazy high clouds & sun. 60°F



Christman  
1989

Journal

94

20 Apr., Del Norte St., Berkeley, Alameda Co., CA  
1 pm caught a smaller Fox Sq; i.e., than  
the 2 adults. to tilden Park same area.  
still high cirrus from SSW; fog off  
coast - just beyond G. G. Bridge; after  
cumulus to NW in Marin Co. 1:27 pm  
Fox Sq in mast N part of oak running about  
in small branches then jumped to line  
& walked 12' & went into Pittos.

Elms, etc. in full leaf, including apple which  
still has white blossoms. The 12' linden  
tree 5' from deck steps has two branches  
with 1" leaves just out - this tree is  
last to lose leaves & last to come  
out in leaf. 3:30 - 4:15 wispy cirrus & small chunks  
of fog = 70° in sun. rain = 14"

21 Apr. light rain & wind at 6:45 am good  
rain for awhile - stopped by 7:30 good  
cloud cover - going N. 8:27 = 53°F. 9 am =  
brief shower. 10 am clear to W. 11 am bright  
sun, white cumulus & few towering clouds.  
= 56°F. Very breezy. 2:31 pm sky markedly  
clear. Fox Sq. made opposite me - first I've  
seen today. It moved to a group of  
dead leaves & branches 1' + around - it  
was being worked on last week (?) -  
then the Fox Sq. went into it - a nest!  
came out 2:34 & into canopy. The opening  
is toward E side - facing me. a ♀?  
4:45 62°F clear, but far off a small cumulus.  
Very heavy cumulus the variable clouds, sun,  
at 6:38; 6:52 heavy fast moving cumulus to N  
dark with strong breeze - heavy birds moving  
7:07 pm quick shower. heavy variable clouds -



Christman  
1989

Journal

95

22 Apr., del Norte St., Berkeley, Alameda Co., Calif.

8:20 am 75% clear - banks of cumuli to 5; 9:30 80% cumulus from 5. 10:30 = 55°F  
By 4:30 90% clear, 6:15 hazy high clouds  
the brighter sun, 58°F.

23 Apr. rain showers 1 am  $\pm$  at times  
heavy. at 8 am scattered clouds, especially  
dark to W. light to heavy rain 9 - 9:30 am  
51° at 8:30; at 10:13 = 45°F a few patches of  
blue. These showers move quickly. at  
10 am rain = .10". 10:29 am light shower,  
big cold drops. variable clouds, all dry all pm.  
6:51 pm = 58°F full sun but a huge  
dark cloud to NW approaching fast - some  
thunderheads. a breeze all pm - a day of  
huge cumulus clouds.

24 Apr. Masses of cumuli & brief showers  
at 8:48 am = 48°F. 9:06 vertical shower  
dark cloud to SW - W - a little hail. not  
heavy. 9:35 - ♂ Passer d., 1st of house finches &  
a towhee on line 2' apart except HF = 6".  
Mud darker at 10:09 - with wind & 45°F  
sprinkling again. 10:43 a good drenching  
rain. 42°F This is tropical in origin, but  
obviously it's pushed by a cold front.  
Fox Sq. in this am 11:30 rain stopped, a bit lighter,  
& 50°F. Most of pm some high clouds; lots of fast  
moving smallish cumuli; 4:53 = 62°F

25 Apr. Scattered cumulus clouds - some large  
& dark, brief shower at 7:30 am. 8:09 = 48°F  
10 am windy no dark heavy clouds; 55°F sun is  
out. Noon - another shower. 3:08 pm heavy clouds  
at least 2 different Fox Sq. in today after 4:30  
scattered clouds, lots of blue; 6:25 high hazy clouds 62°F



Histrian  
1939

Journal

96

26 Apr

going to Monterey & Santa Cruz

27 Apr returned home at 1 pm from Santa Cruz 2 1/2 hrs. up coast to Half Moon Bay 280 - SF. etc. Notes: crows in downtown Monterey (& one on pole in west Berkeley. Along the coast N of Santa Cruz large areas recently plowed on either side of Hwy #1, the most between road & the ocean. Many flocks - 5 to 35+ of band-tail pigeons flying back & forth from inland to these fields.

Yester extensive banks of cumulus clouds & thunderheads along all hills, especially higher ranges, with evident rain

Today small bunches of cumuli - rather small to modest over hills - bright clear day 1:30 pm 61°F. = one Monarch B. going N. 7:05 pm 63°F clear slight breeze

28 Apr clear, at 10:50 am = 60°F faint breeze 2 Fox Sp. in; a ♂ in oak up hill near heading for house, jumped into Pittos. 2 pm caught Fox Sp. & released in Tilden = ♂ short, sleek & dark body hair; long thin tail in good condition & smaller over all size than most - 2nd sp. ♂? very aggressive.

2:13 pm clear 67°F upstairs in shade.

29 Apr. high overcast 9 am = 56°F all a.m. varied high clouds with bright haze seen to a list Lorber.

They say a remnant of a typhoon coming in. 11:40 am a rather mangy ♂, thin, poor tail, but long in looking for food no one likes the cracked can.

30 Apr light rain 52°F, a respectable light.



Christman  
1989

Journal

97

3 days, Rd Natel St, Berkeley, Alameda Co., Calif

until it slacked off about 10:30 am  
when .10" had fallen. 2 pm sun thru  
clouds; 3:40 clear, except for a few cirrus.

1 May clear 9:57 am 57°F in shade, warm  
out in sun. Clear all day

2 May high cirrus from SW; at 10 am 61°F

3 pm 73°F general high overcast; dull sun  
- this has been encroaching for 2 hrs. Very  
little bird activity: 6:09 multiple layers of  
clouds - all high to mid. - no cumulus. The  
entire S-N horizon is covered with low  
hazy clouds & sun. No birds

3 May - clear with some high cirrus. 9:30  
a.m. 61°F The Fox Sq. ♂ with poor hair &  
scratching sides & flank. Then 2 Fox Sq.  
in to feed. Mostly clear. 7:30 pm sun  
behind W. cloud = 77°F.

4 May clear, 8:26 am 60°F. 1:40 pm 69°F  
in shade a bank of high cirrus from S -  
moving fast, without much stringy adumbrated  
fingers. 7:22 pm 64°F high clouds & encroaching clouds

5 May fog, clearing by 8:15 hazy clear by 9 am  
= 58°F marked in patio all day - much  
overcast; to low 70°s

6 May high clouds general haze, muted  
sun; 68°F at 10:46 am. 11:38 am = 70°F  
more mid-level clouds now. 1:37 pm  
general overcast, few small patches of  
blue. Fox Sq. in earlier & now one in oak,  
and checked out the squirrel nest didn't  
enter.

7 May fog - high, at 8:48 am 57°F. Scattered high  
clouds & bits of fog coming inland at 1:25 pm.

1990

1. The first part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

1952-1953, 1953-1954, 1954-1955, 1955-1956

Christman  
1989

Journal

98

7 May, del Norte St., Berkeley, Alameda Co., Calif.  
= 64°F in shade, up & part. a quiet day  
by 3 pm completely soaked in with fog  
and 61°F. little bird activity except  
house finches

8 May 8:33 am = 53°F thick fog tho  
not especially low. Occasional  
breezes. Little or no sun all day

9 May fog again breezes 9:46 = 54°F.  
fog all day no clearing

10 May scattered small cumulus clouds  
with brilliant blue sky. windy. 52°F  
at 9:30 am. increasing clouds - by 2 pm  
58°F & 90% ± cumulus cloud cover, some  
rather dark, variable winds. 6:12 pm new  
clouds from N to S! some showers about.  
dry here. = 64°F.

11 May almost clear at 6 am heavier fog  
at 8:22 am 51°F. warmer, clear pm

12 May hazy clear few high cirrus.  
63°F at 10 am. 1:30 pm hazy clear, slight  
breeze, 62°F

13 May small cumulus from NE 6-8 am; 8 = 48°F.  
clear. 10:40 am = clear, 58°F. minor scattered  
clouds all day - warm in sun.

14 May broken fog 9:40 = 55°F. 10:30 am  
a starling in top of up st cedar - this is  
the first bird noticed there in a week or  
so! 10:44 one Fox sp. in oak, another = landing  
70°F in sun, cool in shade 4 pm heavy hazy -  
high & fog coming in. " "

15 May brief shower T at 5:30 am then  
clear at 7:30 = 48°F. clear, windy & 60°F at  
2:33 pm. 7 pm breezes, fog in & 55°F.

16 May fog to 8:30 am at 10:30 hazy clear = 57°F  
2:08 pm Great Blue Heron family low NW to SE



17 May, del Norte St., Berkeley, Alameda Co CA  
 Fog & variable winds. at 9:37 am  
 51°F. 1:29 pm still fog, windy, 58°F.  
 2:05 pm small thin & sleep & dark Fox Sq.  
 in to feed on sunfl. seeds 3:29 fog, more  
 wind & cold = 54°F.

18 May clear, 8 am = 47°F no wind. clear  
 all day - warmer - ~~more~~

19 May clear 8:14 am = 51°F no breeze.

20 May fog, 54°F at 9:36 am. a fox sq.  
 came out of the nest in oak at this time.  
 - at least had not seen it in tree before.  
 10:17 am high chase 2 fox sq. thru oak &  
 to cedar & up the trunk. pretty well clear  
 by 11:30 am to Palo Alto

22 May 7 am clear; 90% for or low  
 cumuli by 8 am 8:52 am = 52°F. Variable  
 cumulus all day 10-90% 2 pm 59°F shade  
 same wind from SW. ~~from~~

23 May 8:02 am = 49°F; a trace of rain in  
 early am - yard & landing wet. Bright  
 clear blue sky with few big fluffy cumuli  
 & to some towering clouds.

24 May bits of fog to NE & some long wakened  
 clouds from W. at 9:06 am = 53°F. By 11 am  
 (62°F) almost complete cloud cover, very  
 dull sun.

25 <sup>May</sup> Clear, calm 9:47 am 55°F. 2 pm 65°F shade  
 clear, light breeze.

26 May noon caught the big ♂ - scruffy  
 one - made lots of noise till I drove  
 off to Tilden - Fox Sq., i.e.

Clear 12:15 W shade = 62°F.

27 May clear except little chunks of fog early &  
 many high clouds at 9 am = 58°F. 9:43 am  
 Fox Sq. nest in oak; entered & turned



Christman  
1989

Journal

100

27 May Del Norte St., Berkeley, Alameda Co., CA  
a number of times and vibrated, as  
stamping a half dozen times. Then  
departed — it looked dark & sleek  
but couldn't see genitalia. at 8:15  
the dark, sleek sq. was in Pittos near  
to house chattering. Is it same  
animal? Yesterday trapped ♂ (to  
Tilden) — so 2 ♂♂ (new one) — any  
♀; why ♂ at nest? 12:25 pm clear  
except for a few small chunks of fog  
from W. appearing out of nowhere.  
2 pm — less fog, but cirrus & hazy to W  
Bright sun. 64°F. 3:33 pm clear W-NW  
— was out for awhile high clouds & low  
ones approaching from SE ✓

28 clear until noon when puffy  
cumulus over head, 2:50 pm 65°F in  
front — in shade, 4:37 pm — what looks  
to be first oak moth flying about trees!

5 clear windy

29 May variable high clouds in a band  
N to S. ~~52°F~~ 52°F at 8:19 am. at 11:09 am = 57°F.

6:30 pm bright sun, some mist all day.

30 May 8:27 am clear same fog to W = 52°F  
a Fox sq. with a shorter tail & good  
pelage — a new one?

31 May high thin fog at 7 am which has not  
off by 7:45 am a bit hazier. 53°F at 8:21 am  
77°F in shaded kitchen patio. very slight breeze.

1 June clear to Vallejo, Hot 4:24 = 99°F in  
sun. 8:27 pm 82°F inside & outside

8:34 2 large ducks (mallards) 150' above trees  
out of NW to SE 8:47 The first head of the year  
Myotis size and shape of elms 15' + — flew fast  
& straight — E to W & N to S.



Christman  
1989

Journal

101

- 3 June, del Norte St, Berkeley, Alameda Co, CA  
fog in at night, fog to Pinala on way  
to Vallejo - cleared up. Same hock  
- left at 7:10 fog at El Cerrito heavy  
in Berkeley. Same high clouds during  
the day. 8:13 fog & a considerable amount  
of full ant -  $53^{\circ}\text{F}$ . 8:38 the hat is back!
- 4 June a light rain started about 6:15  
am; heavier about 7 & by 9 variable  
cumulus masses with a few holes/sun.  
only trace of rain but everything is wet  
9 am brief shower, then more clouds from  
the SW - thought I heard some distant  
thunder. 9:57 am thunder in distance.  
11:14 am =  $58^{\circ}\text{F}$  cloud cover. 1:04 pm  
cloudy,  $60^{\circ}\text{F}$  one oap with ant, 2:01 pm  
 $62^{\circ}\text{F}$  still cloud cover the brighter. 4:25 pm  
hazy dull sun some high stratus/cumuli
- 5 June variable clouds both high & lower  
at 8:30 am.  $58^{\circ}\text{F}$ . clear after noon.
- 6 June fog at 9:19 am =  $57^{\circ}\text{F}$  little activity  
pm = high 70's to 7 patches of fog coming in =  $65^{\circ}\text{F}$   
by 7:30 solid the patchy fog.
- 7 June dense but not too fog some light  
drizzle 10:30  $52^{\circ}\text{F}$ . 2:16 pm no sun yet!  
=  $57^{\circ}\text{F}$ . 6:40 pm fog, a good wind, chances of  
thunderstorms from E,
- 8 June fog; at 10 am =  $57^{\circ}\text{F}$  hazy sun and  
10 - 11, the fog still S-N in my view.  
partial clearing 2-3 pm, 4:24 in sun  $75^{\circ}\text{F}$  fog  
hangs to W; chunks going N & E bright sun.  
6:28 pm bright fog = 6, including the juv (cloud).
- 9 June thin early fog which pretty well dispersed  
by 9 am; 9:16 am =  $54^{\circ}\text{F}$  slight breeze, clear &  
 $80^{\circ}+$  breeze. Fog back
- 10 June fog all day



Christman  
1989

# Journal

102

11 June, ~~Red Hawk St. Berkeley, Alameda Co., CA~~  
dense fog came but not especially  
low. 11:22 am 56°F. The sleek Fox  
Sq. in to feed briefly at 8:30 & at  
11:30 was about the nest in the oak.  
1:37 pm 60°F, fog - first, only 1, oak moth.  
4:28 pm 78°F in sun. (2:30 - 4:30 50% clear  
& chunks of fog from W to E & N.) about 10  
oak moths

12 June fog - fairly clear 11-12 = 60°F breezy  
clear pm 70°F, quiet day.

13 June 7 am fog, by 8 clearing, windy after  
high clouds.

14 June clear, at 9 am = 61°F. Warm clear  
day 4:40 pm in sun in front - 99°F!

15 June fog, 8 am 57°F short tail Fox Sq. in  
& 9:30 am fog starting to break up with soft  
diffuse sun & shadows. 12:30 - 1:30 holes in  
fog with N-S bands of high clouds. 2:43 pm  
bright, fog 64°F in sun - the first oak moths  
appear - 2. THE GREAT ELM CAPER

7:05 pm fog is low - tow. & between back  
elm & up St. cedar. Made pause find last  
minute feeding - 7:34 pm weights of fog  
between back & W elm - at 4 called city clown  
elm 10 pm they arrived worked to 12:30  
16 June clear 59°F at 9:30 am. high haze  
where elm was can see far to WNW.

Last night they trained the N part of W. elm &  
today took it down to 25' because the trunk  
split. They'll remove the rest in the winter - ?

There is much more open space over the  
elm which was 70' + high. This will restrict  
the movement of the Fox Sq.

17 June clear, will be hot. To Palo Alto & on to Santa  
Cruz, back in PAlly 8 ±; all clear, full moon!



Christman  
1989

11 June

12:35 pm. a strange situation - noticed a bird on wire over the st. at first thought it was a juv. House finch but larger & paler the " " juv. short yellow bill, not quite a finch bill. Spots on wings like finch, a pale yellow throat-breast with very pale vague short spots. Then a small bird flew to it & fed it! The small bird flew into oak followed by the juv. 12:37 - the same juv. to wire 8' from oak & 20' from house - quivered wings. Then a Pinglet flew to it & fed it same 1/2" winged insect & flew into Pittos. Again fed it & flew to line near to oak - a Pinglet, small wing bars, eye ring - the first Pinglet I've been since winter. Then the juv. flew to N ledge where House finches feeding & then down in the feed - & very tentatively sampling feed - seeds.



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18 June, del Norte St., Berkeley, Alameda Co., Calif.

Mockingbirds singing loudly in P.A.  
hark hark by noon; clear, light  
breeze, front - in shade =  $70^{\circ}\text{F}$ .

19 June clear, cool, breeze, fog to SW & W

8:23 am =  $53^{\circ}\text{F}$  between 10 am & 4 a bank of  
high clouds moved in to overhead from W.

20 June clear with high haze - entire W

hazy at 5:40 F. 9:31 am =  $62^{\circ}\text{F}$  first oak  
matt of day seen.

21 June Solstice clear main (9:23 am =  $75^{\circ}\text{F}$ )  
& hint of breeze.

22 June 7 am  $65^{\circ}\text{F}$  clear; 9 am  $76^{\circ}\text{F}$  to 10:15 PM

23 June 7 am scattered fog; 9 = clear to W  
& fog overhead & to E clear 1/3 in hills.  $57^{\circ}\text{F}$

6:22 pm in front  $73^{\circ}\text{F}$ ; at 4 in shade in patio 70 +  
now fog is forming over the flats & moving in.

24 June scattered thin fog, fairly clear, 9 am =  
 $60^{\circ}\text{F}$  breezy. 12:15 pm very windy - west

wind? The valley is probably very hot  
& this will pull in the fog late today  
or the early tomorrow.

25 June fog, 8:47 am  $58^{\circ}\text{F}$  the faintest breeze  
little activity - doves & few H.F. feeding.

Clear by 3 except for a few chunks of fog -  
 $60^{\circ}\text{F}$  + in sun. One oak matt.

26 June fog, 8:30 am =  $55^{\circ}\text{F}$ . yesterday a Fox

sq. with 1/3 tail in about 2 pm a ♂. at 10:45  
the sleek dark one with full tail in - it is

suddenly shy & left after seeing me.

12:20 pm still fog, some breeze, rather bright

2 pm overcast above but clear in spots to  
SW-W. =  $64^{\circ}\text{F}$ . 2:05 Great Blue Heron low N to S.

4 pm essentially clear, lighter breeze &  $79^{\circ}\text{F}$  in sun



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# Journal

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26 June, del Norte St, Berkeley, Alameda Co, CA

4:41 pm 81°F in sun small chunks of fog to NE — one oak moth!

27 June patchy fog - 55°F. 11:30 am strong breeze & now solid fog. Scattered fog to 6 - full cover. = 6:29 pm is 57°F

28 June heavier fog, at about 10 am 56°F 12:30 have clouds - not fog - dark then light slight breeze 63°F a very slight drizzle at one point.

29 June cloudy, opening up a bit by 11 am 68°F. Cloudy all day

30 June fog at 7 am then very light fine rain for half hour, overcast, low at 8 am 9:30 - breaking up to W. sections of blue - some large cumuli buildup in main C.

1 July clear at 4:25 am = 56°F slight breeze. 12:25 pm clear, calm 64°F front in shade.

2 July clear, at 8 53°F & at 9:48 am = 60°F light breeze. Warm afternoon

3 July clear, some fog to S. 56°F at 8:30 am filled the empty D-4 feeder to 3/4 full - HF in immediately. They throw out millet to pile under feeder.

4 July thin fog at 7 am, clear by 9 & 63°F at 11:10 am. Yesterday put out a ceramic bird bath at S. end of the landing - put smooth gravel to cover up the bright blue glaze - also put out regular Saff- way bird seed.

5 July clear - 8:47 am = 59°F Warm all day

6 July clear - 8:51 am = 61°F. 2:13 pm 80°F in front in shade.



- 8 July, del Norte St, Berkeley, Alameda Co, CA  
1:17 pm (back from Palo Alto at 11 am)  
clear except for some mid level  
clouds. hazy - smoggy. This time  
it's 72°F in front in shade. very  
slight breeze. (a fair - clear warm)
- 10 July clear; 9:48 am = 59°F no breeze
- 11 July fog; 57°F at 9:42 am. 11 clearing  
to W - fog in Hills N&E. 60°F breeze
- 12 July fog to noon; clear pm to at least 6
- 13 July fog - scattered clearing 8:50 am = 58°F.
- 18 July clear 65°F at 9:30 am yesterday  
clear & warm.
- 20 July clear, 8:30 am = 58°F. few high  
clouds in afternoon - in 80°F's quiet day
- 21 July 7 am few bits of fog to W & few  
high clouds 55°F at 8:20 - clear with all day
- 22 July fog (57°F at 9 am) clearing - 75% at  
9:35 am. by 11:30 am 90% fog gone = 59°F  
4:30 fog returning, fog law at 7:47 pm 56°F.
- 23 July heavy, low fog - bottom of it several  
blocks NE. 55°F at 9:50 am. 2 pm almost  
clear = 62°F. 4:40 pm fog in chunks in; 82°F
- 24 July fog - cleared by 10 am, back at 5:30 pm
- 25 July fog, 9:50 am 57°F, cleared about noon
- 26 July fog, 8:30 54°F, breeze. Clear except  
for few chunks of fog going NE at 12:30  
pm & 63°F cool, slight breeze
- 27 July fog to about 9 am then clear; 10:09 am 61°F  
clear all day
- 28 July fog 55°F at 8:45 am 9:09 am 50% clear
- 29 July fog at 7:30 am clear by 9 with  
patches of high cirrus going NE. high clouds  
to 1 pm; 6 pm clear, 87°F in front, upstairs
- 30 July fog early clear all day
- 31 July fog to 7:30 am then clear 11:30 am 62°F



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31 July, del Norte St., Berkeley, Alameda Co., CA  
11:30 am fox sq. in oak, inspected the old  
nest which is now just dead leaves. Then  
started chattering. 6:12 pm clear 79°F <sup>in</sup> sun

1 Aug clear, 9: am 57°F warm & clear

2 Aug " warm & clear 7 pm - 82°F in sun

7:40 pm fog to <sup>only</sup> W going N; blaring bright sun

3 Aug am fog off by 9, clear warm fog  
arriving at 4:30 pm success by 6:30-

4 Aug fog in low 54°F at 7 <sup>am</sup>, a fine mist  
all outside. 9 am a fox sq. in oak feeding  
on something - ? developing acorns?

1:30 pm clearing since 11:30, now 80%  
clear & 64°F. ~~all~~ caught a fox sq.

in trap - didn't hear him come down  
the drain pipe. To the car he chattered  
& ran about trap - released at  
tilden. He ran up an oak tree. Fog  
back in, solid, by 5:15 pm - 57°F

5 Aug fog 60°F at 10 am. The elms are  
barely beginning to turn.

7 Aug fog - 8 am after high tops of rain

9 fog off &  $\frac{1}{3}$  -  $\frac{1}{2}$  cumulus cloud cover

58°F at 9:25 am. 7:48 pm several layers  
of cumuli to W & especially NW. a different  
quality of air today.

8 Aug fog & high cumulus at 7:30 am, then  
solid fog. Last night 1 am  $\pm$  lightning  
& thunder way off to NW; not a lot.

~~and~~ a good 15 sec long rolling earth-  
quake about 2 am it built up to some  
rolling jolts then tapered off. House  
rattled - windows shook first

scattered clouds & fog to 2:30 with thunderheads  
to SE; almost clear - 3-4 strange day

4:03 Fox sq in  $\nabla$  a new one? full tail



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8 Aug, ~~del Norte St.~~ Berkeley, Alameda Co. CA.  
6:50 pm completely fogged in. = 65°F

9 Aug fog, 9:30 am 59°F clear by 10:30  
am, 11:30 = 60°F. 1:45 pm a new (?)

Fox Sq. in today - appeared yesterday  
actually. Bastard chattered at me!

10 Aug fog & 54°F at 8. 9:15 am the  
fox sq. in persistent in new pelage  
& well haired tail, but not as large  
as same. Its a bit barker than the  
one taken to Tilden other day. Its  
scratched behind ear with its hind  
leg - over its shoulder with fore  
foot on ledge!

14 Aug 8:13 am clear, 57°F came back  
from Ontario yesterday.

16 Aug fog to 8 am - clear 10:45 am = 62°F.  
noon cool w breezes = 61°F. 2:20 pm  
= 61°F chunks of fog from Golden Gate & is  
pilling up over hills. For the first time  
this yr. the breezes are causing leaves  
to fall from elms & sycamores - they  
blow across the streets. Feels like early  
winter. Fog back by 6 pm 8 pm solid, breeze  
at 55°F. quiet day.

17 Aug fog, 65°F at 11:35 am. clear by noon  
a windy afternoon - 2:35 65°F in shade.

4:14 pm in broken sun 68°F from W. good wind  
& chunks of fog.

18 Aug fog 12:08 pm 64°F no sun. Yesterday

Fox Sq. in NW elm; now in oak at site of the  
nest was eating something - alone?

12:17 Fox Sq. on ledge!

20 Aug fog 11:13 am 60°F fairly clear at 1 pm, 3:30  
pm - spotty fog returning.

22 Aug fog & drizzle 56°F at 9:26 am



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22 Aug., Del Norte St., Berkeley, Alameda Co., Calif  
5:30 - 6:30 am very quiet no calls of  
any kind. Fog all day - rain in N. Cal  
coming. 60°F at 7:30 pm. near sunset

23 Aug 7 am very light rain or very heavy  
drizzle - everything wet. Stopped by 8 am  
8:30 = 57°F. Broken sun, 1/3 clear at 10:45  
am. 12:36 pm clear = 63°F

24 Aug clear 59°F at 8:40 am. clear all day  
76°F at 6 pm. 3 pm ± 7. many small butterflies  
to SE

25 Aug. Clear 54°F at 8:15 am. 2:20 pm = 64°F  
first stringers of fog off to W behind pole  
at circle. Fog came by 6 pm

26 Aug fog, 8:53 am 57°F. 10:50 am dull sun,  
open holes in the fog. Yesterday bought a  
big bag of large white sunflower  
seeds and a bag of pigeon food  
which contained dried peas & pop-  
corn seeds. The latter was not taken  
by doves late yesterday or before  
8 am today. Will anyone take them?  
Pretty clear by 12:30 pm the small chunks  
are still moving to the NE. Windy and  
at 1 pm 62°F. 3:45 pm small chunks of fog  
coming in = 80°F in sun! breezy and  
leaves falling. 7:50 pm 1/3 clear, fog = 58°F.  
4:10 = 86°F in sun fog is returning

28 Aug fog, 8:09 am 54°F clearing by 10:45  
am = 60°F clear to 5 pm fog in 7 solid = 57°F

29 Aug fog, fine drizzle 53°F at 8:33 am.  
afternoon clear & a brisk breeze - stringers  
of fog to SW to NW 77°F in sun.

30 Aug 8:45 am clear, no wind, 54°F heavy dew  
last night. clear all day

31 Aug 8:20 am clear 54°F fog over the bay



31 Aug, del Norte St, Berkeley, Alameda Co, CA  
 Not so warm today, fog back in at 6:30 62°

1 Sept fog, 8:17 am = 57°F. clearing at 8:45  
 and clear by 9:30 but still cool —  
 58°F at 10:12 a.m. 11:04 60°F, but a very  
 cool breeze — feels like November

2 Sept 7-9 am clear to bits of scattered fog  
 dew heavy this am. at 11 am landing  
 is still wet at 60°F.

3 Sept fog early clear by 9:30 am. 61°F at 11:15 am

4 Sept fog, first break in it at 10 am at 57°F

5 Sept fog, 9 am 53°F no dew or wetness

9:45 am beginning to clear. Fog in during night

6 Sept fog, 9:35 am 53°F. Fog & cool all day

7 Sept partial clearing by 8:30 am 55°F.

64°F 2 pm a monarch flying by. to S & to N.

7:25 pm clear; 59°F hazy. Low pressure to NW.

8 Sept fog 56°F fog broke up at 1, but still  
 bits of fog sailing N & E, at 2:30 <sup>pm</sup> 64°F  
 feels cool. Fog in patches by 5

9 Sept 9:30 am fog & 55°F. Cooper hawk  
 low thru neighborhood 9:54-10:04 it was  
 10:40 ± am before things back to normal  
 with stellar jays calling & towhees & finches  
 out. clearing by noon, then scattered  
 chunks of fog to N., some breeze 61°F.

2 pm one monarch to S. not high. 3:39 pm  
 absolutely clear, 80°F in sun. 7:31 pm 59° clear  
 quiet

10 Sept Sunday to CAS / 12:49 fog; = 58°F  
 partially clear to 7+. only 63°F in sun at 6:27

11 Sept at 9:03 am 54°F fog, dry at 8 am  
 quiet day. 2:38 pm still fog = 62°F. Fog all  
 afternoon 7:30 pm 54°F breezy

12 Sept 8:11 am fog 53°F. 10:15 am some sun.

11:21 am monarch to NW below tree tops. 1:18 one  
 monarch to SE over house. 3:23 pm clear 69°F in sun



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12 Sept., del Norte St., Berkeley, Alameda Co., CA  
3:37 pm clear - another monarch to S.

13 Sept 7 am thick ground fog; 7:30 am  
clear over head, but 1 block w fog overhead  
8:31 variable overhead =  $52^{\circ}\text{F}$ . 9:50 am  
 $58^{\circ}\text{F}$  clear. = go far this am. 2 robins  
fly N below elm tops, one flies S, same.  
2. mocking birds high one lands  
briefly in top of up st cedar, other  
in top of dead pine branch 150 yds  
NNW. and 2. steller's flying S over  
tops of elms. 12:35 pm one monarch to  
N. On Salano ave. another 20' up to S.  
1:06 pm 1 monarch on. motionless  
wing high over oak gliding southward.

6:12 pm clear =  $64^{\circ}\text{F}$  quiet. clear at dusk

14 Sept hazy clear at 7; 7:30 am fog  
low 4 blocks w. by 8 + the fog is low &  
thick 8:53 am  $54^{\circ}\text{F}$ . 11:30 slowly clearing,  
 $59^{\circ}\text{F}$   $\frac{1}{4}$  sky to SW to NW is fog. sun out.

11:59 am 1 monarch over oak to S. =  $60^{\circ}\text{F}$

12:14 pm 1 " " elms.

1:51 pm 1 " " oak & house to SE

back again 7:08 pm fog in huge swirls  
is returning =  $56^{\circ}\text{F}$ .

18 Sept 8:20 am fog,  $54^{\circ}\text{F}$  fog breaking up  
slowly at 11:30 am. 12:50 clear 12:54 pm  
monarch over house from NW. 3:50  
another monarch S. 4:15 pm on Salano ave -  
a few small clouds to W., but 2 towering  
thunderheads - S and SE (behind hills.)  
6:33 pm bands of high clouds to W-NW (20%).

18 Sept 2 am  $\pm$  first lightning - thunder in  
distance, 4 am to NW & more & closer 5:10  
first light rain, one brief shower - stopped  
by 8 scattered clouds - all levels from S.



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16 Sept., del Norte St., Berkeley, Alameda Co., CA  
9:43 am shy a monotonous gray to  
5 then a general rain; lasted minutes.  
again at 1:10 pm (so far .18") = another  
shower. 3:40 pm a continuous light  
rain - a gentle soaking of the dry yard  
(except for my superficial watering), 4:32  
a sazy towhee chipping on ledge looking  
for food. The shy is lighting up a bit to  
5W but still a continuous vertical rain.  
Now everything is wet! No blue just  
lighter shades of gray at 5 pm = .68" rain.  
7:07 pm. still raining!

17 Sept 90% clouds of different levels & color  
8:39 am 55°F 9:56 am cloudy and breezy  
with cascades of yellow elm leaves  
falling - then light rain from 5.  
10:23 clearing - bright, 1/3 blue sky. 10:49 am  
light gray monotonous sky, a breeze  
Total rain so far for this storm (10:40 am) = .81"  
now a very light drizzle. 11:29 am slightly  
heavier rain - rain tapered off about 12 noon.  
3:15 a five minute heavy shower. = 59°F  
6:25 sun & scattered clouds, 10% blue, = 58°F  
18 Sept shower about 5 am rain at 8 am =  
.28" (since yesterday) scattered clouds, 52°F  
10:49 am 75% clear, puffy cumuli from NW  
monarch over house & alighted on oak  
near top in sun. 57°F. 10:52 am another  
monarch to W. 10:59 am there have been  
2 Fat Gg. in separately about same  
size, but one has full tail & other scraggly  
1:30 - 2:05 pm small thunder heads NW-E; ±  
clear overhead & far to W where there is a long  
band of high clouds, in a few minutes high overcast  
from NW-N over cumuli & its getting darker.



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- 18 Sept, ~~del Norte St, Berkeley, Alameda Co, CA~~  
2:08 pm thunder to NW. The clouds has pretty well travelled on to the NE without further thunder nor rain (until a few drops at 3:01 pm). 3:02 solid gray to SW a small hole of blue & a thunderhead to WNW. Breeze died down - can't tell direction of wind.  
4:12 partial sun again high clouds over head & banks of cumuli to W, slight breeze. a day of the briefest showers & a collection of clouds 85% clear to 7:20 pm = 55°F going to be cold!  
19 Sept 7 am 47°F relatively clear, by 8:15 am low cumuli to high in hills. 10:10 am 50°F clouds, 50% blue 56°F one monarch over house & lawn - in the sun. 11 am almost clear - a very soft quality today. 57°F.  
11:50 about 4 more monarchs, most to S.  
2:53 pm 61°F several more monarchs to S. More to day than hitherto. 4:12 pm clear & still, looks like a fog bank beyond the S. Gate.  
4:48 pm whiffs of fog out of thin air to W to NE  
20 Sept 8:31 am fog, 55°F. no dew 10:03 am sun out. Fog beginning to break. same high clouds WNW, then 11:30 bigger bank of high clouds to N which moved N. Several monarchs to S - fairly high treetop.  
21 Sept out late - Brian stayed over - at 12:25 60°F in shade up stairs has been clear since before dawn. Everything wet from dew early - before 8:30 am 3 monarchs to S in a.m.  
22 Sept clear some dew 61°F at 9:30 am  
9-12 pm 9 monarchs to S. 1:30 pm caught the Fox sp. with poor tail. 3 pm 2 more monarchs, one was very high to SE  
23 Sept low fog, no dew or wet, 54°F 9 am



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23 Sept, del Norte St., Berkeley, Alameda Co., Cal.  
10:50 am a monarch alighted on  
a branch of NW elm  $\frac{1}{2}$  way up on  
S side - still fog and 60°F. Saw a  
yellowish warbler (?) into oak  
- immediately disappeared. 2:04 pm fog 58°  
3:42 pm still fog, so far 3 monarchs today.

24 Sept fog, 9:42 am = 60°F 1-6 + pure high  
cirrus clouds from SW. Cleared at noon

25 Sept partly cloudy (fog) at 7:30. at 8:45 = 58°  
in a.m. at least ten monarchs went  
by most lower than tree tops. Two at  
one time - first time for 2! a quiet day.

26 Sept 8:06 am 58°F rows of monarchs  
sky - cumulus from W. 90% + cloud cover  
first monarch at 9:33 am to W. This is the  
time of year that jays fly high and  
are very obvious, with considerable  
noise. Monarchs are capable of long  
glides up to 30 yds at least. 10:32 am  
1 monarch to N between trees. 11 am  
open sky same fog next to hills. small  
cumuli to N; 63°F. 2 more monarchs  
to S. One approached W elm 50' up then  
had to climb over it. Slight breeze & a  
cascade of yellow leaves falling. Between  
2-3:30 great slashing bands of gray  
mid-level clouds from SW (64°F) dull  
sun.

27 Sept cloudy with same fog, 8:32 am 58°F  
thin 98% cloud cover. after noon cleared  
& warm on Solano also 7:30 = 59° 70°F today

28 Sept fog, 57°F at 8:40 am 10:42 am fog  
first broke open about 10:30 now first  
monarch over house & to W. 11:45 am cirrus  
just coming in & a haze to W. = 62°F



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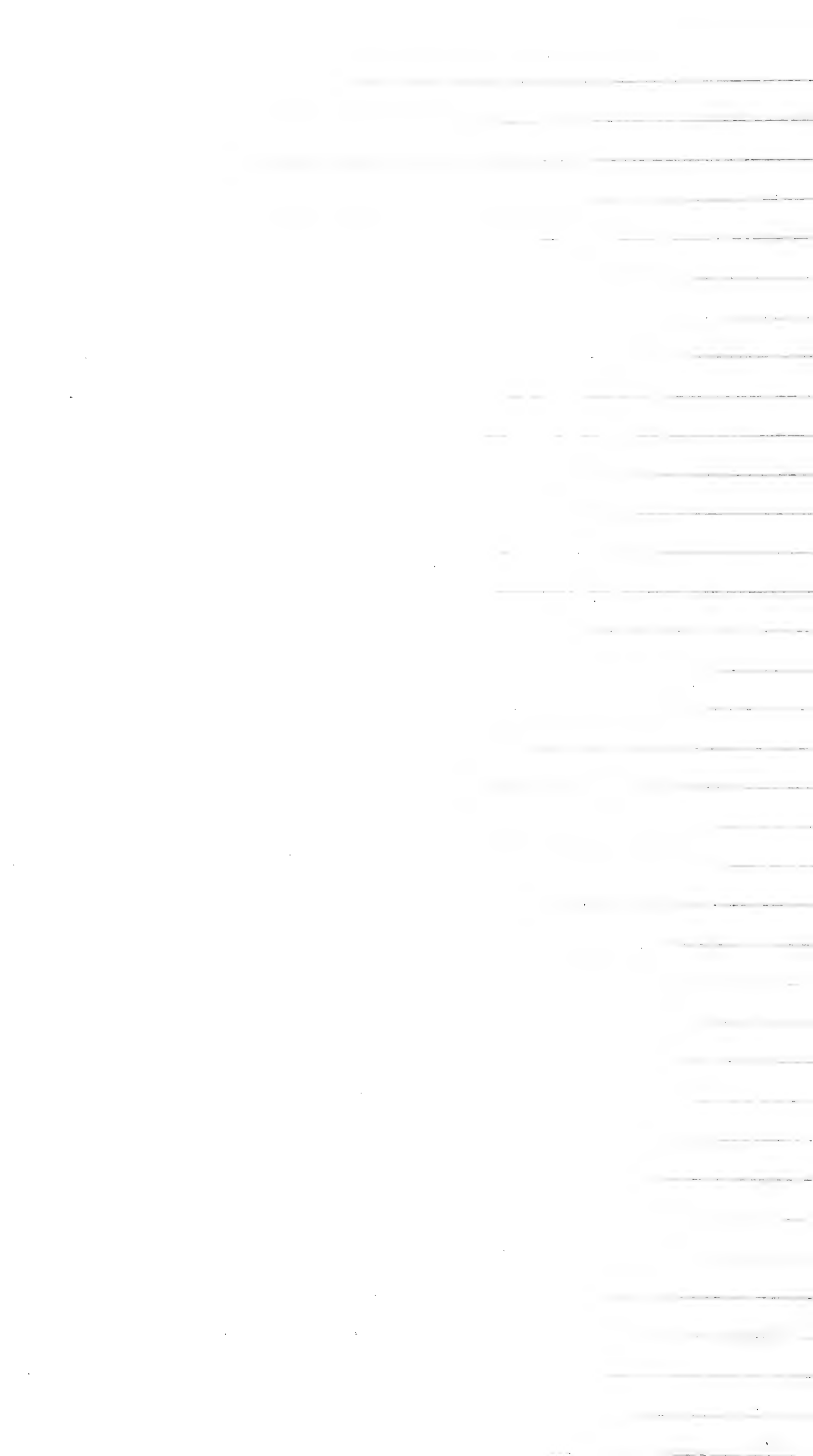
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28 Sept., ~~at Hatter St., Berkeley, Alameda Co., Calif.~~  
noon - getting hazy, no shadows, some  
open areas to W but looks like indistinct  
fog 63°F. 2:44 high clouds 90% 63°F. feels  
like winter. few small chunks of indistinct  
fog. 6:30 pm a light rain!

29 Sept. Mix. clouds at 6:30 am. 90% clear as  
8 with banks of clouds in Marin Co. & NE to  
SE over hills here. Everything is unexpected  
- 70" rain last night 8:12 = 54°F. 9:45 am  
have been scattered formless cumuli  
to N. far an hour +. Now 58°F damp outside  
11:05 = 60°F pretty clear with only few bits  
of fluffy low clouds. Seeing cumuli NE in Marin  
1 pm a huge brilliantly blue sky with a  
large thunderhead building behind the  
utility pole WNW in N Marin - Sonoma Cos.  
Things washed & wetted the last night's  
showers, 1:46 pm now cumuli have form  
shape, dark & light; to SE, W & NW. Sporadic  
2:08 = 64°F. 6:54 = 61°F shade; high fluffy clouds  
30 Sept cloud cover at 8 57°F. 9 am - broken  
sky with anamorphous soft, thin cumuli.  
On warm afternoon cumuli have  
sharp edges & a real form - due to  
warm rising air. Now cool the banks  
of cumulus clouds soft formless.  
monarch 10:54 am first of day. about half  
dayen/day.

1 Oct fog cover at 7:30 am. 75% open by 9 & at  
9:45 = 59°F perhaps it will warm up. in sun  
10:07 am first monarch to SE 4:16 clear 80°F  
4:48 to W chunks of fog to NNE. 7:08 pm sun down  
pale yellow sky to W with fog racing in heavily & fast  
57°F busy day working - reading

2 Oct Fog, breeze 8:15 am = 55°F



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2 Oct, del Norte St., Berkeley, Alameda Co., Calif.

9:40 am breaking up - some fluffy cumulus clouds. 10:40 am low fog over bay and overhead from SE! and cumulus from NW - very confusing 11:30 - 1 increasing cumulus clouds from SW, slight breeze 1:18 pm = 64°F. 3:44 pm cumulus from NW. 85% cover 6:58 pm partly overcast = 59°F Snow in Sierra

3 Oct clear cool dew; 8 am 49°F 9:39 am foggy on ends of branches in oak - after rains? 12:59 pm clear 63°F. 2:38 pm 63°F in shade. An hour ago one small cumulus building over hills to NE in 50 min. it was towering up - into a full thunderhead. Same to W Nubee, Marin Co. - 1/2 doz. Monarchs today. 3:30 pm in sun = 77°F.

4 Oct. clear with a thin mist among hills

8:16 am = 46°F dew again this am. No clouds. 9:59 = 55°F first monarch (temp. in shade) 10:59 am 2 monarchs to E 15" apart, one about 10:15. = so far 4. 11 = hazy high clouds to W. 12:46 pm band of hazy cirrus N-S to the W.

5 Oct clear 8:30 50°F; first monarch at 8:37 to NW. 3:57 pm 92°F in sun!

6 Oct clear 7:58 am = 51°F. 9:23 am monarch landed in oak - E side in sun, 20' up - the first this a.m. 11:53 am = 63°F shade. 12:13 pm a monarch soaring well over tops of elms - close to the height of clouds.

7 Oct. Fog, clear by 9 hazy about edges, 10:36 am = 56°F, quiet. Noon hazy at 61°F high filmy clouds to SE-S.

8 Oct clear 59°F at 9:16 am 9:25 60°F & first monarch over house to NW. Crickets have been chirping in the fog <sup>even</sup>

9 Oct. Clear, no dew, 8:42 am = 60°F. 9:51 first monarch to 5 over house. 4 or 5 monarchs by 11 am



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9 Oct. del Norte St. Berkeley, Alameda Co., Calif.  
3:18 pm 86°F up stairs, 80° down stairs.  
a hot day. 6:41 well after sundown = 64°F

10 Oct. low fog 54°F. 10:20 am dull sun,  
vague shadows, a little blue, 58°F, clear by  
11; 12:50 pm = 62°F. 1:18 pm monarchs out today  
most over house SE, or flew opposite  
direction; two flying 18" apart, several  
to SW. and one flying 5 high (others  
below height of elms).

11 Oct fog-high, 8:32 am = 53°F 10:18 am  
hazy sun - still fog from my view. 10:21  
first monarch over house from E landed  
on oak to sun itself = 58°F

12 Oct high fog 9:25 am 54°F = Fox Sq. in Oak  
only one dove about - in NW elm, 2 or 3  
house finches in top of NW elm with  
a robin. 11:34 am sun out but still fog  
W-N. 11:53 am 57°F first monarch - high to  
E. 12:30 pm most of fog gone, but a rather  
hazy sky with many cirrus S to N. at  
1:15 pm 59°F.

13 Oct. 7:30-9 am scattered & patchy fog. 9-53°F  
essentially clear by 10 am. a low pressure  
center - a very weak one is going thru - so  
it may clear out the "marine intrusion".  
2 streamers of high cirrus to SW at 10:05 = 54°F  
11 am a few long disjoint cirrus still streaming  
to N fairly rapidly. high hazy cirrus to S & E  
at 12:30 pm. 62° in back, 59° in front cool day  
12:57 pm first monarch to W over house. 4 + high  
clouds thicker to S & E heavy low far over bay.

14 Oct fog, 9:12 am 53°F ledge & landing wet  
dry down stairs. dull sun overhead at 10:35 am  
then had to overcast. at 10 one Fox Sq. in oak &  
another came down to landing. 11:31 = 59°F fog



14 Oct. del Norte St., Berkeley, Alameda Co., Calif  
 In a minor way this is the first day  
 of winter: fog overcast & sac. within  
 in 45 minutes: a R-c. binglet, a ♂ town-  
 send warbler & a flock of wax wings  
 flew over & a golden-crowned  
 warbler. 1:23 pm first monarch of day  
 - 57°F!

15 Oct patchy fog = intermittent sun & blue  
 9:59 am = 55°F. towhees, doves feeding  
 - suddenly all took off & a dark bird -  
 fairly large flashed S to N past 6' over  
 deck - could it be what it was - now  
 no birds about, quiet. 10:05 towhee  
 feeding & salin top up s cedar. 10:31 = 55°F =  
 first monarch W to E below house level  
 1 pm = 59°F in front, fog mainly gone; some  
 cirrus over head and hazy to SW.

16 Oct patchy fog 49°F, 5-10% blue. 9:45 am  
 = 52°F almost clear; hazy edges.

17 Oct clear, 8:40 am = 53°F. 10:14 first monarch  
 NW to E at 59°F! About noon a N-NE  
 wind came up, now 70°F! Irish breeze.

5:04 The Earthquake: the hardest

I have ever felt! Listened to new to Jan.

18 Oct clear to high 70's in pm 7:13 pm = 72°  
 Many crickets calling.

19 Oct 8:59 am 63°F high cirrus from S first  
 monarch. 11:14 am 70°F more monarchs  
 bands of cirrus & diffuse light & shadows.  
 3:16 80°F more cirrus & sharp shadows. 6:55 pm  
 bands of clouds to W = 63°F.

20 Oct overcast, no dew etc. 8:51 am = 54°F.

9:15 am 2 Fox Sq. near top of bare up s elm  
 made running about & appears to be feeding  
 on buds or branches - 70' up ±.



Christman  
1989

# Journal

118

20 Oct., ~~del Norte St. Berkeley, Alameda Co., Calif.~~  
only one monarch at 1:44 pm = 66°F still  
overcast. 3 pm = 64°F SW wind with cumuli  
moving past. 3:25 pm very windy.

21 Oct. Trace of rain by 7:30 am. general  
heavy sprinkle at 8:30. When I went out  
at 7:55 steps dry under arch. Now light  
breeze. 9:50 am light rain; everything wet  
Foxg. working over ends of branches.  
10:15 darker & now general rain. Wrens & doves  
& towhees & 3 robins - now no birds  
active. 10:30 less rain; brighter sky & light  
breeze. Rain in am. = .20"

22 Oct scattered clouds of many layers; 9:18 am  
= 58°F. clouds from S, no breeze. A little rain  
last night. 11:45 am has been sunny with  
variable clouds. Now increased wind &  
more lower cumulus moving in.

Same monarchs out in the sun. cumulus  
clouds all afternoon. Rain for day = .05"

23 Oct a light rain by 3 am and very  
heavy at 7:30 and let up to a good  
drenching rain by 8:30. 9 am = 54°F. No  
bird activity. rain over verbs at octanais  
at 7:45 am. 9:16 light rain: on line 10 house  
finch, 3 doves (one juv) & one Br. towhee.  
Doves in to roof. 9:24 light rain also robins  
(2) & scrub jays on tree tops (NW elm very top).

Rain fall yesterday to 10 am = 1.48" !

10:45 new light rain sky lighter now. few  
small spots of blue off to W. Obviously a  
nonew front went thru. More out there  
11:09 light rain - now uniform overcast. 12:23 pm  
rain stopped few spots of blue (- 59°F) 1 pm more holes  
in clouds, no breeze = 59°F 3 pm scattered cumuli  
7:11 pm almost clear! = 56°F Plus .09" in rain gauge



Christman  
1989

Journal

119

23 Oct., del Norte St., Berkeley, Alameda Co., Calif  
7:12 pm crickets chirping every evening up late.

24 Oct. huge dark clouds at 8 am 8:30 - 9 were  
several tentential lacoon pairs. 9:05 am  
huge cumuli same blue =  $51^{\circ}\text{F}$ . Rain 6 pm  
last night to 9 am (d thick dark, heavy) =  $-.36''$   
10:05 heavy shower. 10:35 sun out &  $50^{\circ}\text{F}$   
blue sky. 11:22 low cumuli moving N fast  
to W some huge towering cumulus building  
up fast. 12:30 still small cumulus over head &  
towering C. to W and esp. to NW. Today seems  
to inaugurate winter: warblers, robins, flickers  
etc. 3:27 pm over  $50^{\circ}\text{F}$  clear with huge towering  
cumuli around entire horizon & few high cirrus

25 Oct. clear; 8:30 am =  $44^{\circ}\text{F}$  dew on car.

9:30 am. Fox Sq. at old nest incubating & foraging  
for acorns. Very little bird activity until  
after 9 am - (at 9:30  $48^{\circ}\text{F}$ ) when sun  
was out full - robins, doves and House  
finches in sep & elms in sun! 9:34 Fox Sq.  
in mid section of NW elm - so 2 V 11:46  
am.  $53^{\circ}\text{F}$  upstairs, down stairs in back, outside =  
 $57^{\circ}\text{F}$ . It feels cold. Noon - 2 pm first new  
growing cells of cumulus - seem to develop  
first small then coalescing. Towering C. to  
SE over hills 3:17 pm in shadow of a large  
cumulus overhead & to W & E a few clear areas  
 $59^{\circ}\text{F}$ .

26 Oct + clear except fog - clouds to W & S  
at 7:30 am; by 8:10 clouds moving in &  
now overhead =  $56^{\circ}\text{F}$ . 8:33 both several  
scrub J. & Robins tops of trees. Nothing has  
come into feed yet! 9:11 house finches, doves  
kent leg J & towhees into feed. 10:54 variable cloud  
overhead; building up over hills to E. Banks of clouds  
SW to North cirrus & a number of towering cumuli.



Christman  
1989

Journal

120

26 Oct., del Norte St., Berkeley, Alameda Co., Calif  
= 54°F upstairs, sun out no wind. 1:44 pm was  
high cirrus over most of sky with cumulus;  
now almost clear except for huge build  
ups of cumulus W to NW. = 60°F. 3:30 clear  
except band of cumulus SW to N not well formed  
in sun = 72°F. 4:10 now band is closer - light  
clouds under it to horizon.

27 Oct about 5 am light rain = .07"; overcast  
at 8; opening to W & overhead at 8:45 am = 51°F  
9:45 am 50% blue, sun out, ill formed cumulus  
= 54°F. 9:51 towering cumuli WNW - no breeze  
but clouds from NW. 10:21 am 90% rather dark  
cumulus. 11:08 am = 56°F Now cumulus  
clouds have a more definite form -  
I think this is due to convection and with  
things heating up & with elevation they  
tend to billow up & thus have form &  
shape

28 Oct. 9:20 am 49°F clear, no breeze (but  
wind during the night) no bird activity  
~~the~~ daves in W. elm. 9:30 1 towhee in, same diadema  
heard stiller S to N. 10:52 am 54°F 2:30 Fox Sq  
in coop = 63°F. more of a breeze

29 Oct 10:23 old time, 53°F; clear, persists  
NE wind. 3:45 pm light breeze now; in sun  
= 81°F haze & high clouds to SW & W.

Switching to standard time

30 Oct clear, wind during night; 8:05 am  
bands of high cirrus S - W with high wispy  
cirrus from SE overhead = 55°F. 11:45 am  
heavier clouds in from SW. 3:48 pm monarch -  
first I've seen in days! = 84°F in sun

31 Oct 8:41 am clear, 50°F in upstairs shade, high  
clouds to S & W. Just monarch out! 1 pm several  
more monarchs: ~~to~~ 65°F <sup>many monarchs</sup> going N as S!



Christmas  
1989

Journal

(2)

- 1 Nov., del Norte St., Berkeley, Alameda Co., Cal.  
8:15 am clear 53°F. several monarchs in air  
1 pm = 66°F up st. monarch to N.
- 2 Nov 8:25 am = 50°F clear quiet. 8:51 am  
= 53°F first monarch, to NE. 9:50 am NW dim  
= jay (much) N near nestling branch. Thence  
+ Lark & a towhee - it is 3 ft from the top  
- it is highest 4' from fork 15' from jay  
towhee flew down
- 3 Nov clear 8:15 am 51°F. 9:23 am 56°F same  
thin stringy bands of cirrus N-S off to W & N.  
2:20 pm 72° shade; monarch to S.
- 4 Nov 9:15 = 53°F clear. at 8 am 2 Fox Sq  
chasing around an elm trunk 7-10'  
from ground. To Palo Alto
- 5 Nov Palo Alto fog until 9 am. Name at 1:30  
mainly clear - 2:50 in sun 78°F but feels  
cool, some disjoint cirrus SW to N.  
4:19 almost solid strato nimbus to NW -  
heavier, cirrus SW. 6:30 dark = 52°F
- 6 Nov thin fog to 8:30 clearing overhead  
more to SW & in hills = 49°F 10 clear, 52°F  
after hazy cirrus to NW. lots of dew before 8 am  
10:48 more cirrus N-S & bands of hazy clouds to W  
3 pm entire sky high thin clouds to W (S to N)  
in sun 70°F
- 7 Nov clear with a band of cirrus N-NE at 8:32  
= 50°F clear all day
- 8 Nov 8:33 am = 49°F clear heavy dew. 9:58 am  
first monarch to S. = 54°F.
- 9 Nov clear; breeze off & on in pm 68°F in shade  
at 1:26 one monarch to S.
- 10 Nov clear, no dew, 8:07 am = 51°F
- 11 Nov clear, no dew 9 am = 56°F, a hazy band  
of ~~cirrus~~ cirrus off to W - entire horizon. 11:35 am  
first monarch overhead to E. filmy cirrus now approaching.



Christman  
1989

Journal

122

11 Nov., ~~del Norte St.~~ Berkeley, Alameda Co., Calif  
12:06 pm 68°F. 2 pm widely scattered  
cirrus, solid to W. 72°F & no shadows.  
3:21 same 72°F. 3:35 broken sun; one  
manarch to N 4:12 pm Fox Sq. a cold  
nest in aab just die seen in aab today  
higot in to landing at 8:30 ± am

12 Nov low fog 51°F at 9:22 am. no dew  
variable clouds (high cirrus) & fog all day

13 Nov Fog 8:50 am = 53°F light drizzle with  
wet streets, etc. 9:13 am heavier drizzle  
will be a "trace" of rain. Much more  
"activity" by tree-hives & finches in the  
drizzle today as compared to other  
days at this time. However, only one  
jay in & no robins or foragers in aab!  
2-4 pm gradual clearing to mostly clear  
4 pm = 60°F in aab.

14 Nov. fog, broken fog & sun by 8:15 = 49°F.  
clear all after noon very mild

15 Nov. variable clouds 9:15 = 60°F a storm  
front somewhere! 11:30 am bands of thick  
cirrus, no shadows = 63°F often gusts of wind.  
more open at 4 -

16 Nov 8:55 am = 49°F clear. 9:39 am = 54°F  
first manarch - to NW over house.

clear - 64°F at 1:20 pm little bird activity today  
2:30 bands of cirrus N-S to the W. = 80°F in sun.

17 Nov 57°F at 9:40 am clear, cirrus far to W.

By noon a rather hazy sky of thin cirrus  
in bands to W. The Photinias in house  
& back are bright red. two fox Sq. running 60' up  
in NW elm to W. 12:28 pm first manarch to S; =  
66°F upstairs, partial shade as always



Christman  
1989

Journal

123

18 Nov., ~~del Norte St., Berkeley, Alameda Co., CA~~  
clear tho hazy, wind blew last night  
quiet at 9:45 = 60°F The sharp-  
\* skinned hawk incident by 10:30  
no birds incident, house finch flew  
this am. no doves to feed, saw big  
towhee early. 10:40 first a scrub J  
then a flicker on top of utility pole  
at the aisle  
a strange day — wind last night and  
still gusts 65°F at noon and practically  
no bird activity — a towhee several  
times, no jay in close, came near Pittos  
but can't see — so a hawk in earlier  
but is lack of all means birds so to the  
wind? One B towhee sunning on line  
12' from house, another in Pittos, one scrub J  
top of up st cedar only briefly. One house  
finch in Pittos making simple "chew-ips"  
— and except for the one in top of NW  
elm during S-S hawk presence — none  
in NW elm.

19 Nov clear, at 8:25 am: 51°F. Last afternoon  
\* as I was watching a merlin at his dinner  
I saw in the far distance behind the hawks  
a good sized flock of birds flying north.  
They might have been good sized shorebirds  
— such as willets. This am, no wind. 10 am  
am impressed by how little bird activity  
there has been! weather, two hawks yester-  
day — what?

20 Nov clear, 9:45 am: 56° Doves came in  
& towhees & house finches once — the  
D-Q feeder is used much less frequently  
esp. the finches & chickadees. So why  
less feeding? so I fixed up feeder



20 Nov., del Norte St., Berkeley, Alameda Co. CA  
with more sunfl. seeds both small  
black & large white. will this increase  
use of the Wall-Yambee Feeder?

21 Nov one of those low fogs! 8:15 am  
46°F can hardly see up St. cedar. 11:15 am  
first dull sun. 12:44 very hazy blue, indistinct  
shadows. = 54°F. 3:46 pm just about clear  
except high filmy-hazy cirrus = 55°F

22 Nov high fog, 48°F, no dew. 9:25 +  
2 luth-tits & Townsend in oak, then  
first chickadee. 1:40 first sun today. 56°F.  
3 pm 50% clear 54°F.

23 Nov Thanksgiving. Fog at 8 am open more  
with sun at 9 - cirrus & short rolling cumulus  
paper claims rain coming. 9:45 back to solid  
high fog. 11 am fog has given way to high  
cirrus getting thicker - a front coming  
in. Both Linden tree & apple are fully  
leaved, up to about 11:45 lots of bird  
activity, then none evident except for  
chickadee at feeder. 67°F. to Palo Alto 1:15

24 Nov both days overcast in am. clouds  
from NW. Things wet from trace of rain.  
Drive up - no hawks or vultures seen.  
overcast with lightest of sprinkles in  
Hayward area. at noon 58°F. 1 pm  
intermittent sun & small patches of blue. 1:30  
more blue & sun 58°F. thunderheads to W.  
Fox Sp. with only 2/3 tail! a new one. 2:40  
more open sky with long thin wisps of high  
cirrus 3:22 pm fog in; towering cumuli to NW.

25 Nov. light rain after 6 am 50°F. 11:31 am  
more heavier rain. Lots of activity in  
last 1/2 hr. medium rain after noon, plus breeze.  
2:15 a bit heavier, more wind, = 52°F



Christman  
1939

Journal

125

25 Nov., ~~Belknap St. Bechela, Alameda Co., caly~~  
2:25 pm heavy rain & wind. 3:30 general  
dawn pour - dark; no wind. one robin &  
one dove in w. elm. Rain last night, 6 pm 1.87

26 Nov. clear ~~47°F~~, everything wet & to  
9:26 am. Rainfall = .25 total = 2.12"  
9:53 am bank of fog or cumulus to WNW &  
suddenly a whisp of cumuli behind up st.  
cedar. 10:21 am more & larger fluffy formless  
cumuli forming to NW & moving NE.

10:55 am half of my view is large billowing  
cumuli. sparklingly clear. 6 - basically  
clear with few cumulus. Now 47°F

27 Nov. 9 am 45°F, clear. Last night at  
11:20 & 11:25 + heard a small flock  
of Canada Geese go over. - impression  
was from N to S. First line seen  
heard from here! 10:26 am = 49°F  
with a light breeze. 11:28 am 52°F, stronger  
winds.

28 Nov clear, windy all night & a.m. 44°F 8 am  
9:38 am 2 Fox sq. in - one has been here 15 min.  
2nd arrived; first one went down quite.  
[a black phoebe fly by?] 11:30 am caught  
Fox sq. that has been jumping up on D-4  
feeder - to Tilden Nature area. 1 pm the  
wind subsided & it's 53°F in shade.

29 Nov cirrus across entire sky, light breeze  
9 am = 47°F, 9:16 am Fox sq. from oak up  
line to landing & another down drainpipe  
a very dull day bird wise until about 3 pm  
when high ~~the~~ cirrus clouds came in - both  
spp Jays in, doves & of course towhees.

30 Nov partly cloudy 45°F at 8:30 am. no wind  
1 Dec clear, bank of cirrus hangs off to W on  
entire horizon. 3 pm 73°F in sun - clear, no wind



Christman  
1989

Journal

126

- 2 Dec. del Norte St., Berkeley, Alameda Co., Calif  
hands of altocumulus SW to NE. 9am =  
48°F. hazy horizon. Yesterday noticed  
\* that first white flowers of Pittos are  
out - only 2 or 3 clusters so far. and  
mature orange fruits are very abundant  
& plentiful. 10:22am hazy clear, 53°F
- 3 Dec. 9:30 am clear except for filmy cirrus  
to W, = 48°F No bird activity. Does temper-  
ature effect bird activity? Wind does.  
9:30 1 towhee; 10:45 1 jay to landing near  
in trees - not even doves. 1:17pm = 61°F  
feels chilly in house. 4:31 pm = 59°F clear  
with high feathery cirrus & haze to W. quiet day
- 4 Dec. 8:35 am clear except some altocumulus  
to W = 46°F. quiet
- 5 Dec clear at 7:30 am, but by 8:30 am 80%  
fog & at 53°F. By 10:30 am fairly clear with  
bits of fog - especially toward the bay.  
11:40am back to fog = 60°F 2:17 still fog; 61°F.  
bird activity 2:30 pm fog tiresome towhees  
scrub - steller jay, <sup>(12)</sup>doves, flicker, calling  
house finches, Oregon juncos, G-c. sparrow!  
2:46 pm sun out fog now broken. 3:05 clear  
overhead; fog to SW & W. dr sun 76°F  
3:16 pm sunny - 2 mangroves or sycamore  
tree height or + to N. bright clear 95% at  
3:47 = 65°F. 5:35 dark 55°F
- 6 Dec clear, everything outside wet from dew  
8:08 am = 47°F during night fog ham in Bay  
10:30 = 53°F. 1:30 pm band of haze & thin cirrus  
across horizon to W. New Fox sp. looks young.  
2:02 manard over house! 4pm thin hazy cirrus
- 7 Dec very high thin cirrus with disorganized  
hands of cumulus from W. 8:20 am = 46°F. No fog  
9:30 more cumulus under upper haze, indistinct shadows



Christman  
1989

Journal

127

- 7 Dec, del Norte St, Berkeley, Alameda Co., Calif.  
9:51 am cloudy meaning general overcast  
10:57 am one Fox Sq. sitting on 10" trunk  
in oak. Another one in Pittos went down  
line & jumped into N part of oak. For the  
\* first time today or this year I noticed  
↓ a sprinkling of fresh green leaves on  
a few of the "plane trees" or European  
Gymnades on Marin St. and near  
N. branch library. 95% leafless as an  
overall impression. 11:42 pm. more  
hazy - high thin cirrus - shadows sharper  
= 58°F. 2:25 brighter less haze, feathery cirrus  
= 62°F in sun. 4:48 pm almost clear except to  
W. dust about 4:30; now 53°F.
- 8 Dec thin low fog; high thin cirrus with  
some cumulus streamers. Very hazy  
at all levels. 43°F at 8:30 & 47°F at 9:49  
am. 11:05 am fairly bright haze with sharp  
shadows - NO bird activity except 12:45  
general overcast dull shadows 58°F. 4:40  
still hazy, 53°F now some real clouds  
to W.
- 9 Dec clear, early few high cumulus to N  
9:45 am = 48°F. 2:04 pm = 60°F one monarch  
to N.
- 10 Dec bright, clear & cool 9:49 = 48°F; was  
wind during the night. mild clear day
- 11 Dec 8 am = 42°F clear occasional wind  
heard 2 (?) Canada geese at 12:30 at night  
49°F at 11:35 only occasional wind.
- 12 Dec clear - hazy on horizons & a few  
thin high cirrus. 6:30 am = 38°F & 40  
at 8:30 - cf. Cooper hawk acct.
- 13 Dec. clear, 39°F at 7:30 am strong N wind  
43°F at 8:45. 1:30 caught Fox Sq. to tilden



Christman  
1989

Journal

128

14 Dec, ~~del Norte St. Berkeley, Alameda Co. CA~~  
clear, 10:11 am =  $48^{\circ}\text{F}$  little bird activity  
no doves. 12:20 pm  $53^{\circ}\text{F}$ .

15 Dec clear, cool all day. 11:51 =  $53^{\circ}\text{F}$

16 Dec clear, very thin low fog hazy  
horizons  $44^{\circ}\text{F}$  at 9:30 am. when some  
high cirrus in from N.

17 Dec Fog all day with brief sun 3 pm at  
4:17 =  $50^{\circ}\text{F}$  cool. Walked down stairs

18 Dec 8:22 am  $45^{\circ}\text{F}$  total fog, high. One  
Fox Sq. on landing then down line to ash;  
now are down side walk across st.  
foggy clear afternoon, cool all day

19 Dec thin fog at 8 cleared to hazy clear  
& at 10:30  $43^{\circ}\text{F}$ . cool all day

20 Dec thin low fog, cold clear above.  
9:30 am  $40^{\circ}\text{F}$ . Since about noon high cirrus  
from SW, at 4:45 =  $46^{\circ}\text{F}$  cold all day.

21 Dec clear with few thin cirrus & hazy  
fog, 10:30 am  $43^{\circ}\text{F}$ . 2 Fox Sq. they like  
to sun on ash, etc. trunks in a.m.

22 Dec clear, fog over hills,  $35^{\circ}\text{F}$  at 8 a.m.  
12:55 handed beaver, two beaver orange Lt.  
1:16 pm fairly bright sun;  $49^{\circ}\text{F}$

23 Dec clear,  $36^{\circ}\text{F}$  at 7:30 am. few cirrus  
off to W. 3:18 pm =  $57^{\circ}\text{F}$  cirrus over head  
all day.

24 Dec clear with few cirrus,  $36^{\circ}\text{F}$  at 7:30; 9:43  
=  $40^{\circ}\text{F}$ .

26 Dec - back in Berkeley, in P.A. to N. Howard  
were cirrus & overcast 12:30 pm here  
clear with haze & smog.

27 Dec 8:46 am  $43^{\circ}\text{F}$  fog. 1 pm  $47^{\circ}\text{F}$  still fog  
cumulus clouds & 90% cover - late pm

28 Dec clear & windy with fog banks far to E & N and  
bits of fog going over, 8:50 =  $38^{\circ}\text{F}$ .



Christmas  
89-90

Journal

129

28 Dec., del Norte St. Berkeley, Alameda Co., CA  
2 pm no wind. 58°F. quiet day

29 Dec wind during night 53°F at 10:30  
clear no wind now. 1 pm a monarch at  
"cicle" 75 yds to NW. saw 60's & a few  
cirrus to W. a little wind at night

30 Dec. clear, 9:30 am = 50°F light breeze.  
4:16 = 57°F no breeze. Several times today

Jay, scrub top of NW elm, saw a robin  
10' away but high a house finch, doves  
lawndawn 20-30' down = several dozens

31 Dec worked down stairs all am & to 3  
Fog till 1 when hazy sun, few cirrus  
3 pm = 58°F.

1 Jan '90 Surprise wake up to a moderate  
- light rain which tapered off by 11 am  
= 48°F. 11:44 a.m. 2 Fox Sq. in a chase in  
NW elm - 50-70' up. 12:15 rain back.

The squirrel chase continues. One seems  
to be defending one of the "squirrel nests"  
in S part of NW elm. dt (the ♀?) is flipping  
tail which is very obvious - flashing  
the ochrish ventral portion of tail! An-  
other approaches nest to within 3-4' and  
is chased 10-25' along a branch (6+  
diameters). Then it returns to nest

This continued! Then a third sq. app-  
eared, but didn't approach nest  
closer than 50'. at 4 PM = .78" rain

4:29 pm 45°F light rain. rain let up by dark

2 Jan clear, 37°F at 8:30 am quiet, still.

1 PM = 50°F and a slight breeze.

3 Jan. variable "fair weather" cumulus, at  
9:15 am 40°F.

4 Jan clear some filmy cirrus to W 39°F at 9:30.

11:37 filmy cirrus now overhead 47°F outside



Christman  
1990

Journal

130

5 Jan, del Norte St., Berkeley, Alameda Co., CA  
clear with more filmy cirrus 37°F at  
6:30 & 45°F at 10 am. cirrus in long thin  
feathers from N, lightest breezes 600 ft  
outside upstairs as all temps. at 3:30 but  
it's a cold day.

6 Jan first at 8 am few cirrus going E;  
43°F then by 9 am fair w. cumulus & fog  
to W as bay (heard fog horns off & on  
during night). So at 9:27 heavy to W-SW  
fairly clear but soft edges, 44°F fog  
may come in. 10:23 fog coming in in  
huge blobs, with high cirrus above the  
few blobs.

7 Jan light rain at dawn; .10" at noon  
& at 1:26 pm 51°F a bit heavier & slight  
breeze. Rain tapered off in evening.

8 Jan 8:30 broken clouds, -10% blue, 54°F.  
10:30 am Big hole in clouds to W with a  
few amorphous low cumulus larger & cirrus  
shape, 1/3 - blue. = 59°F. closed up again  
about noon; light misty rain at 1:10 pm.  
Dizzle stopped by 2 pm. No more than 1/4 in  
seen at a time so far today & no warming  
3:56 heavy mist falling

9 Jan 7:15 am scattered clouds. Pretty much  
clear by 8:30 am; = 49°F. 11:30 clear, hazy  
hazy ones, no wind, 57°F. A storm is due  
in tonight. Between 12:30 pm & 1:40 a bank  
of high cirrus moved in from W; no breeze at  
1:43 = 59°F upstairs no sun yet. 2:05 almost  
overhead.

10 Jan variable clouds, 50°F at 8 am breezy  
lots of bird activity, esp. 4 juncos, chickadees  
H. Finches, towhees. Newspaper = heavy rain &  
wind in Oregon & Washington



Christman  
1990

Journal

131

10 Jan., del Norte St., Berkeley, Alameda Co., Calif  
- will start to bring in more water  
ings, robins & B-T. pigeons. 4:44 pm  
high cirrus all day, now heavier & darker  
but still high = 55°F.

11 Jan. overcast - thin cirrus - haze. 9:45  
am = 52°F.

12 Jan. started raining 6:15 ± am continued  
variable 11:17 = 52°F. 2:12 downpour  
2:17 very heavy & thunder. coming straight  
down. 2:28 greatly diminished, 3 - stopped  
4:30 rain again, 4:45 heavy.

12-13 Jan. Mix up on dates - did 2 missa day  
rain several times during the night  
total rain fall = 1.78". at 10:48 am 5°F

11 am getting darker light rain. 11:20 now  
heavier rain. 2:06 light to moderate rain  
all day = one flock of waxwings (-10) and  
one robin in NW elm. so far. 2:38 sun out  
briefly, still very light rain. 3:20 waxwings -  
1 flock of 25 ± down to SW. 7 pm Rain, some  
thunder close by & 46°F

14 Jan. watched that ball Rain =

15 Jan. yesterday was scattered shower  
in am & variable clouds all afternoon.  
at 8 am today clear but for cumulus  
bank of clouds to W. at 9:20 they have  
moved to S. = 55°F. at this time Fox  
Sq. sunning on bench 24" from upper  
nest in S part of NW elm. 1:49 pm a few  
thunderheads beginning to form WNW & bands  
of high cirrus SW to NW above some cumuli  
= 53°F in shade.

16 Jan. rain for 1-2 hrs. before dawn, then  
scattered clouds, mainly cumulus; 9:38 = 42°F  
in sun. 3:41 pm thunder heads SE & N; bright sun 58°F



Christmas  
1990

Journal

132

17 Jan.

at 8 am  $38^{\circ}\text{F}$  & spacklingly clear; 10:27  
am =  $42^{\circ}\text{F}$  They are cutting down the  
mass scattering only thru on the black.

18 Jan. clear, cold,  $47^{\circ}\text{F}$  at 10:34 am. Same all day

19 Jan fog over hills, misc. cirrus over  
head & hazy w. horizon. at 9:30  $37^{\circ}\text{F}$   
9:30-10 am Fox Sq. near the closest or lower  
nest in W. part of N. elm - it was pulling  
down -  $1/4$ " branches & eating & undaping  
hubs. Noon =  $44^{\circ}\text{F}$  a few more cirrus not  
quite bright sun. 2:30 =  $50^{\circ}\text{F}$  frequent  
gusts of wind & almost no cirrus above.  
3:45 more windy gusts =  $53^{\circ}\text{F}$

20 Jan clear, cool 9:48 =  $44^{\circ}\text{F}$ , calm.

[yesterday about 3 pm a new Fox Sq.  
appeared - down the drain pipe from  
the roof - to NE. It was smaller than  
usual or thinner. almost yellow in  
coloration. rather ratty looking,  
especially about neck & shoulder - I  
scared it off - will it return. also,  
yesterday that g. damn persistent Fox  
Sq. tried 6+ times to come up line to  
feed. I hit line with hammer stick.]

2:02 same Fox Sq. a large dark one  
with beautiful full tail came out of  
Pittos to line & to house. chased it back  
to Pittos. Then it got on line to crab -  
hit line to speed it on its way.

4:45 clear, calm =  $55^{\circ}\text{F}$ .

21 Jan clear, cool, calm.  $47^{\circ}\text{F}$  at 11:1 am

22 Jan high clouds & hazy low fog, 9:45 =  $45^{\circ}\text{F}$   
a band of cirrus past S-N from the W & was dull  
- hazy & no sun. at 11:45 clear, sharp shadows  
as & now a breeze has come up. =  $48^{\circ}\text{F}$



Christman  
1970

Journal

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23 Jan, ~~del Norte St., Berkeley, Alameda Co., Calif.~~  
Clear, calm, cool. 9:49 am  $46^{\circ}$  11:30 clear  
but approaching haze from W to N. Little  
bird activity today. 3 pm calm; clear except  
for some N-S bands of thin cirrus off to W.  
a very quiet day. High pressure zone

24 Jan clear with few cirrus to S & W, at 8:40  
 $= 44^{\circ}$  F. same sky all day

25 Jan 9:22 am  $= 42^{\circ}$  F same cirrus sharp  
shadows. 3:22 pm  $63^{\circ}$  F in the sun. haze  
with heavy cirrus to W. 3:59 pm Fox Sq. in  
up & elm, 5 side, 50' up seems to be feeding  
on buds of the elm. In last 3 days two  
Fox Sq. - the yellow ~~skin~~ scrubby one which  
is easily discouraged & the beautiful  $\sigma$   
which is not easily discouraged from  
coming in from above Pittos. (last try  
was about 2:30 pm) What happened to the  
so-called  $\phi$  in speding nest, etc. Haven't seen

26 Jan 11 am.  $= 48^{\circ}$  F, windy (N), clear & cool  
High pressure regime. same all day

27 Jan 7:30 am  $36^{\circ}$  F, clear, calm, cold.

4:21 pm clear except for one cirrus to SW. Fox Sq.  
feeding on W elm buds, 5' from top.

28 Jan clear, calm, cold at 9:30  $= 41^{\circ}$  F with  
bands N-S bands of cirrus. clear all day

29 Jan overcast.  $44^{\circ}$  F at 7:30 am.  $47^{\circ}$  F at

8:22 am 8:30 + a very light mist. 9:10 am  
a blue hole in overcast with some high

cirrus; no mist falling. 10:09 sun out

$1/4$  sky is blue, low fuzzy clouds still. a  
brief but dramatic Robin - wax wing frenzy.

Misc cunies all afternoon

30 Jan light rain all night until 5:30 am  $= .33''$

broken over at 8 am  $= 45^{\circ}$  F, 10 am  $= 48^{\circ}$  F  
with variable clouds - mainly huge



Christman  
1990

Journal

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30 Jan., del Norte St., Berkeley, Alameda Co., Calif.  
dark cumuli. No wind. Much bird  
activity: house-tails, juncos, chickadees  
titmice, G-c sparrows, even starlings  
especially robins - waxwings 10:20 am  
now almost clear with sparkling sun.

Thoughts of the day.

- 1) do waves of hantails come into  
area with storms? as today -  
hard to prove.
- 2) a feeding frenzy of robins - wax-  
wings ended very abruptly about  
10:20. Why? They didn't go to a  
pyrocarcha up st next to side  
walk! sun came out.
- 3) this is the numero uno feeding mixed  
flock, i.e. robins & waxwings.

12:45 from NW a fairly heavy shower

1:18 rain stopped sun out, clear overhead  
high clouds to SW & far to W. birds very  
active. 2:12 has been clouding up again but  
not as dark as at 1 pm. 3:20 pm getting dark  
again. The landing & ledge mawdry from  
shower at noon, except for puddle at low  
end of drain pipe. 3:23 sprinkle starts;  
heavier & same wind. From S. patch of  
blue off to NW. 3:36 blue SW - NW; light  
sprinkle now. 3:40 sun out higher & other  
to W. 3:58 light sprinkle, a bit of low sun. &  
mainly cloudy. everywhere active. <sup>after</sup> cloudy

31 Jan. clear, calm, cold (at 8:08 am = 36°F)

and 10% cirrus in all sectors. 10 am =  
43°F clear, except for bank (S-N) of cirrus off to  
W. another storm due in tonight. 12:15 pm my  
viewing area is now a solid gray of high cirrus  
shadows up to 1:20 "hazy sunshine, now



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1990

Journal

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31 Jan., ~~del Norte St., Berkeley, Alameda Co. CA~~  
no cast shadows. 3:22 pm getting darker  
15 doves & 20 ± robins about. a few singing.  
when will it start raining. 4:49 to  
first rain drops in small puddle at W end  
of landing & a few gusts of wind. light rain  
about dark & on into night (8 am)

1 Feb. pretty clear with a few cirrus & cumulus.  
39°F at 8:55 am. calm, cool, variable  
cumulus all day

2 Feb. clear, slight breeze with several  
small chunks of cirrus. 11 am = 48°F.  
little activity. no robins about. 11:32 am  
2 robins flew over, 3 doves 60' up in NW elm,  
1 house finch - red ♂ to feeder, 1 towhee  
- no singing, etc. High Pressure  
regime. Now filmy cirrus far to W.  
12:22 pm now a few long bands of cirrus  
NW in W. sector. More white flowers on  
Pittos NW of house. 2:53 pm about 1/2  
high filmy cirrus. sharp shadows.

3 Feb 9:21 am = 48°F scattered cumulus  
90 ± % cloud cover; no rain. Now a  
storm system moving through, with  
lower pressure. about 50 robins &  
chickadees in trees with much calling &  
singing - then a wave of 150+ warblers  
came thru from NE with about 100  
robins. Also doves & three house finches  
feeding. The wave took out all but  
3 robins - so about 300 birds in  
air at one time. 9:44 diffuse sun, darker to  
W. to Palo Alto 11:30 → rain in late after-  
noon & night there & back = 2 dead  
chickadees; no T. nuthatches & only 1 R-t. hawk.



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4 Feb. del Norte St., Berkeley, Alameda Co., Cal.  
Clear, calm cool noon = 45° F. Harbor  
11:45 am. busy all afternoon

5 Feb variable clouds - minor, 8:30 = 39° F  
calm 3 pm a bank of cirrus approaching  
from W. a quiet day, not much activity.  
More green leaves on Plane Trees on Main  
ave. to SW to N solid clouds; a ragged  
edge overhead & pretty clear to SE. but  
SW wind & front is moving fast. 4:04  
now complete cloud cover & dull, no sun  
a suddenly flurry of robin activity - tops  
of trees & a flight from SW.

6 Feb rain last night 12-6 am  $\pm$  = 1.48"  
a.m. scattered clouds & 45° F. The little  
pink plum NW of front porch is in full  
bloom now. 4:00 F at 11:30. 2 pm 75% clear  
weezy = 50° F a rather quick buildup of  
dark clouds to NW - quiet to SW; slanting sun  
5:30 trace of big cold drops & opening up.

7 Feb clear, COLD & calm. 30° F at 7 am.  
8:51 = 36° F, but ice on roof puddles. Fox  
Sq. in high limbs in elm up the St. eating  
huds. clear & quiet all day. 7:52 pm = 40° F

8 Feb 34° F at 7:30 am Variable cirrus &  
ill-formed cumulus clouds, esp. W. no  
wind. 9:45 - 90% vague overcast. The  
juncos & G. C. sparrows & Br. towhees  
shelling millet - some times H. finds  
many annulus by 3 with few spiracles.

9 Feb 10:20 = 50° F scattered diffuse cumulus  
which acts like fog.

10 Feb calm, cool, clear, foggy, bay early.  
2:23 Fox Sq high in NW elm - climbing up to  
terminal branches to eat the huds.

11 Feb hazy high cirrus, no sharp shadows



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Journal

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11 Feb., del Norte St., Berkeley, Alameda Co., Caly.

48°F at 8 am, calm. 11:30 now an overcast very dull light & shadows 57°F. 2:20 pm clouds lower/darker & a little wind. 3:40 doves coming in to feed, three robins overhead, towhees in & G-C sp. & house finches about. an approaching storm & they want to "taul up" more doves seem at bent leg scrub jay in. only 2 house finches. G-C sp. shy to come in. a real "feeding frenzies" - a strong or long raining spell?

12 Feb. clear, calm - warmer, 50°F at 9:50 am 3:01 - 69°F in sun, slight breeze & some cumulus moving N toward W.

13 Feb clear, windy cool, 11:20 = 42°F no robins about. 1:45 pm there have been some small cumulus to W; now more & getting bigger. also an irregular band of cirrus N to S off to W & more of a breeze. The cirrus are moving overhead. Looks like a complete cloud cover of cumuli to W. The heat of the day changes the form of cumulus clouds into more discrete, sharper edges, etc. 2:27 pm cumulus accumulation (? a thunderhead?) darker & appears to be going SE with a defined edge on NW side. There has been very little bird activity today. doves in early. 3:28 these clouds are past. a new broader band of clouds to NW. Fox Sq. feeding on new developing buds 1/2 way up NW elm. 4:08 another storm, etc in Marin Co (N) now it's raining S., clear overhead, periodic wind. 4:33 clear except cumulus to SW over SE. 4:53 Sun going down - a flurry of activity -

14 Feb clear, calm cold - 7:30 am = 30°F



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14 Feb., del Norte St., Berkeley, Alameda Co., CA  
8:45 am. 33°F now a light wind  
blowing. 9:32 14 gulls - most adult  
plumage low overhead from SE to W/  
NW being buffeted by wind. 9:58 another  
flock of about 20 gulls from S to NW.  
1:28 pm 45°F clear, occasional stiff winds.

15 Feb. 28°F outside at 6:30; 8:11 = 33°F  
calm, hazy high clouds lots of rabin  
talk. 10:51 am very dull sun with diffused  
shadows. It is becoming a general  
overcast now. These cyclonic storms  
take hours to come in - getting darker  
& an overall light gray with no "form"  
of clouds. a small berry feeding. 11:57-50°F.  
2 pm 1/2+ clear with a few high cirrus & banks  
of cumulus SE to NW. Now clouds more form  
& volume - broad cirrus to W. with a few  
bands over head - 49°F. 3:13 more horizon-  
tal cumulus S to N; shallow, discrete.  
3:25 pm. calm bright sun, dark to W. cirrus above  
thicker cumulus. 4:32 scattered cumuli 90%!  
Fox Sq. in S part NW elm another aggressive one in  
Pittos. 5:45 almost dark; cumulus low & dark  
6:45 pm = 45°F. light rain at 7:15  
16 Feb rain; 45°F at 6:30 good breeze.  
.54" since 7:15 pm last night (8 am).  
8-8:30 light rain - gusts of wind = feeding  
juncos, tanagers, G-C. Sparrow, House  
finches (2♀, 3+♂). No robins in elms  
etc. 8:55 am heavier rain - can only see 1 dove  
in NW elm. 9:45 a bit heavier rain & some  
gusts of wind - all took cover. Chunks of dark  
clouds going N, fast. 11 am. driving rain, same  
wind. 11:26 am rain lighted up, no wind.  
= 40°F.



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16 Feb, ~~del Norte St. Berkeley, Alameda Co. Calif~~

12:16 pm rain has let up, almost quiet.

1:10 pm much lighter, no blue, no rain — since this a.m. reading, has been .97" of rain! 3 pm 47°F few patches of blue, calm. 3:08 Fox Sq. feeding on buds in NW elm. S side 55' up. 3:16 huge cumuli to North small wisps of lower stuff. 3:57 90% clear, 54°F in sun. 4:39 Fox Sq high in an elm eating buds - flowers. 6:30 pm 39°F with few very dark cumuli at dark.

17 Feb rain continues from light to heavy showers including hail. 36°F at 9:14 am. Rain 6 pm yesterday = .23" 3:48 pm mainly open to SW - N with a line of cumulus & towering C. to W-NW. heavy clouds to S. = 56°F in sun. 4:19 out of WSW some high cirrus & huge (towering?) cumuli 4:32 low angle sun, but 90% is huge clouds & holes, getting darker

18 Feb, COLD - ice in puddles, calm with growing cumuli, 40°F at side at 10:45 am. 11:41 am 43°F well defined cumuli from the N. little bird activity 2 robins, dove fed early, not about now, House finches in late - 11:30. clouds increased to 2:45 pm ± more clearing at 3:27 = 66°F in sun at doors.

6:40 dark, clear, calm, 42°F.

19 Feb clear, calm cool 43°F at 10 am, with 5% cirrus exp. to W. bar gone. 49°F at noon very quiet day, only 2 robins. 2:50 bank of cirrus to W getting higher & closer = 65°F.

20 Feb. calm, high cirrus, some layered, no shadows; at 8:50 am 41°F. General overcast, 49°F at 11:15 pm

21 Feb misc. cumulus to 11:30 then fairly clear



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21 Feb., del Norte St., Berkeley, Alameda Co., CA  
when its 51°F little bird activity.

22 Feb clear, except hazy cirrus to SW,  
a NE breeze, 50°F at 8:30 am, 8:53  
am? Fox Sq. emerged from upper nest &  
is feeding on elm buds - flowers 6'  
away. 3:23 pm 80°F in sun outside. Some  
high feathery cirrus. breezy all day. little  
activity during afternoon.

23 Feb high thin cirrus, very light breeze,  
59°F at 10:30.

24 Feb very hazy with high cirrus at 9 am  
= 54°F calm. 1:04 pm first monarch to  
N below tree level. an almost balmy day  
(3:53 = 79°F outside in sun) The haze  
is now bands of well formed cirrus &  
high cumulus. 5:22 pm leave. high clouds  
- 1/3 blue,

25 Feb an unusual low fog but fog  
horns started about 6 am. By 8:24 am  
sun thru holes in fog - 47°F 10:36 am, -  
15% cirrus over head, hazy cirrus SW-NW; 54°F.

26 Feb Fog. at 10:27 am 51°F. 11 am sun out  
with a few holes in fog. little bird activity.  
12:06 pm only few bits of fog left, hazy sun  
52°F. 6:19 = 48°F clear, cool.

27 Feb Fog, 8:30 am 46°F areas of hazy blue off  
to entire W. horizon. no fog horns this am  
clear by noon - didn't warm up

28 Feb Fog, no fog horns 47°F at 8 am.

12:46 pm. hazy sun and diffuse broken  
fog - 55°F. 2 pm now hazy sun seems  
to be high cirrus. 4:47 pm 57°F in sun.

1 Mar cloud cover, no sun, no sky. 8:47 am 48°F.  
cut a branch in the Pittos on which Fox Sq.  
gain access to the whility line from



Kristman  
1990

Journal

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- 1 Mar., ~~del Norte St., Berkeley, Alameda Co., Calif~~  
across the street to NW corner of house  
& touches the cab. The smaller, same  
what ragged, more yellow one  
has used another branch! 4 pm new  
a low uniform gray of an approaching storm
- 2 Mar a very light rain started about  
4:30 am., stopped by 8. 8:38 raining  
a bit heavier than before. Fox G. active in  
rain, but seem to prefer to be in hood  
leaved trees. NW elm is out in green now,  
from developing samaras 1:30 pm was  
out for 1/2 hr with no rain 1:44 light rain  
again - so far a steady light rain. Fair  
amount of bird activity but so far only one  
flock of waxwings & no robins about. 3 pm  
rain a bit harder - doves, treehees, G-C Sparrows  
& House F. feeding (latter D-4). 4 pm a bit light-  
er, a few drops.
- 3 Mar 7 am scattered blue & low clouds. 8 am  
fog - low in elms! 1:17 pm 56°F outdoors  
hazy clear, lots of sky. Tapering cumuli to SW-NW  
with some high thin cirrus and diffuse  
fog chunks moving in. 5:01 pm bright sun  
the tapering cumuli to the NW are obscured  
by fog after the GG; few high cirrus; but fog is  
coming in & a storm. 5:11 pm Fog now 90° to 55°
- 4 Mar low clouds or fog at dawn, a very  
light rain at 9 am = 49°F. 9:51 a real light  
rain now with gusts of wind 11 am. The showers  
have been very brief & breezy only occasional  
11:48 pm = 52°F now moderate rain - 2 down on  
line reached up. Shower ended 12:50 with open  
patches of blue; up to 1:10 pm .38" rain - maybe  
some left over from last time. More clouds  
again. 2:04 sprinkles just began again



4 Mar., del Norte St., Berkeley, Alameda Co., Cal.  
2:36 pm rain has stopped & breaks in clouds  
& sun out. 6:10 scattered lark clouds = 47°F  
clear to  $\pm$ .

5 Mar. 8:10 am clear - 43°F. Just light at 6 am  
one robin calling - no songs. 3 pm clear  
no wind, over 70°F in sun. Little bird activity  
today. 6:10 sun just down = 52°F same  
cirrus - cumulus off W = S to NW. No wind.

6 Mar. 8:17 am 44°F clear calm; heavy  
dew last night. 11:59 am 2 white butterflies  
flew by - 56°F. 3:27 same = 74°F in sun  
quiet day. Put out a whole heart English  
muffin (1/2) + a little peanut butter - S.O.B.  
ate it avidly - so I'll trap it. 6:12 bands  
of cirrus off to W. TV = same in 3 pm.  $\pm$

7 Mar. 10:50 am out all a.m. clouded up  
over night. now 53°F a few times of thin  
diffuse sun. Cloud cover until  $\pm$  3 when  
appeared up. 58°F in sun. grass starts  
from west thru Fox G. chased hand - t.  
away. 4:58 pm lots of activity B-t, juncos,  
H.F. doves cooing

8 Mar. clear, calm, 38°F at 7 am. These cool  
high pressure regimes are keeping  
temps. down. Spring is rapidly advancing

8:23 am a few ill formed, small cumulus  
clouds forming over head. 10:20 am 45°F occ.  
breezes more fuzzy cumuli - from N with  
a heavy band to W. 10:49 a.m. about 75% cloud  
cover. by noon fewer cumuli, but now  
well formed & a few just beginning to rise  
deep blue sky, sharp shadows, Bright = 67°F.  
4:32 pm strings of cumuli N to S. No thunder heard today.  
6:14 sundown - twilight, clear, = 50°F. quiet everywhere



stellar jay calls

"Tchek" + loud, harsh, ringing

"kweesch" + loud

chu-chu-

keē-lu, keē-lu

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Christman  
1990

Journal

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9 Mar, del Norte St. Berkeley, Alameda Co. Calif.  
clear, calm & cold -  $36^{\circ}\text{F}$  at 6:30 am,  $42^{\circ}\text{F}$   
at 7:56. 8:52 long streamers of cirrus  
from S to N - no wind. 3 p.m. about the  
same  $70^{\circ}\text{F}$  in sun, & Fox Sq. feeding on  
samaras on NW elm 70' over street, & dropping  
bits & pieces. 4:10 more thin cirrus. 6:11 pm  
=  $52^{\circ}\text{F}$  clear, but for a few thin cirrus to SW. day  
10 Mar wake at 7 with a light rain; 8:52 am  
=  $45^{\circ}\text{F}$ . 9:35 at least one chickadee & 1  
Kinglet foraging in aab - light rain. Juncos  
on landing. Then brush-tits - 7  $\pm$ , which  
flew into Pittos to N. One robin flew by 1 hr.  
ago! 10:05 am some wind noise. 10:10 quite  
suddenly the sky lightened - no sun. w  
horizon is light clouds, very light sprinkles.  
10:26 rain stopped. 12 - first sun & patches of  
blue with clouds going N. 12:20  $75\%$  clear  
 $52^{\circ}\text{F}$ . 2:30 windy & cold. From almost clear  
to now more cumuli & some high stuff.  $25\%$  open  
Fox several months now a very aggressive  
Fox Sq. has been ~~seen~~ scolding my birds - have  
been seeing it every. Have lost all patience  
will trap & kill it - a first. NOW - cloud  
ing up  $100\%$  =  $53^{\circ}\text{F}$ . 5:09 pm. complete cloud  
cover; doves & tumbrels in. 5:27 one in NW elm  
feeding on samaras; the aggressive  $\sigma$  on line  
next to Pittos. Chattering at me. Heavy clouds to  
N. some open areas to W. =  $49^{\circ}\text{F}$ . 6:03 past sun-  
down  $80\%$  clouds Fox Sq. in NW elm, 5' or high, feeding  
on samaras. 6:18 almost dark, heavy cumulus Fox  
Sq. ran down main trunk to N. Where is her nest?  
11 Mar 7:30 am calm, cold ( $36^{\circ}\text{F}$ ) & clear, except  
for towering cumuli over San Mateo Co., hills  
10:10 am =  $45^{\circ}\text{F}$  outside are small cumuli to W.  
11:47 am a few more, larger cumuli to W.



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11 Mar, del Norte St., Berkeley, Alameda Co., Cal.

12:02 pm the cloud has grown & is fairly stationary WNW,  $\frac{1}{2}$  mile across. 12:32 just returned from Tilden Park where I released the extremely aggressive Fox Sq. I trapped an peanut-butter-dry Ratdog here! The S.O.D. can raid feeders there! 12:43 still a few clouds, bright sun, & a few well defined small cirrus above - from S (?). No, cirrus to S. The cumulus much larger almost overhead. 3:46 still lots of blue sky with cumulus (esp. N & E) but more patches of cirrus. The Fox Sq. was another! The S.O.D. is back so put out a prairie falcon. 4:27 6 doves & about 8 finches 4:43 wind, cloud S.

12 Mar. 8:12 am = 40°F, clear, calm & again towering cumuli to S in S. Mateo Co. Today they seem to be gearing up to trim elms on the st. a crisp day. with cumulus build up now over coastal hills in Marin Co. none - overhead. 11:32 am trimmers have left, after trimming only 2 trees. 11:45 am = 47°F small cumulus overhead. Trimmed N part of NW elm 1:30 - 2:45. 3:52 sky mainly mammalious cumulus clouds. 4 pm a new big ♂ Fox Sq (total 2 new) bath near down line 6 of few lig & cumuli & left = 53°F

13 Mar. Hazy with diffuse high clouds & a few cirrus. 37°F at 7 am. 8:52 starting to trim NW elm. 11:46 am They finished for morning. NW elm was very judiciously trimmed, mainly lower  $\frac{1}{2}$  amount of samaras cut is less than say 20%. almost clear bands of high diffuse-hazy cirrus from S. 2:45 clear, hazy cirrus to W. 4:10 pm more high filmy cirrus to W. increasing complete multi-layered cloud cover = 51°F.



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14 Mar, ~~at note 50, Berkeley, Alameda Co., Calif~~  
8am out 6:50am overcast, dark to be  
now some dull sun + 47°F 9:55 now  
opened up to blue sky, diffused sun  
with feathery high cirrus. 11:12am low  
cumulo-nimbus? have moved in for  
a general overcast. 46°F 2:34 lowering  
overcast, 55°F feels colder. 5:50 since 3pm  
a light mist.

15 Mar clear at 6am. 8am = 55°F upstairs-out  
with some high feathery cirrus. Clear  
at 9am - hazy to W. horizon. 10:05 more  
high cirrus to W. 11:14 more cirrus layers to  
W. & entire sky is diffuse, tho shadows are  
fairly crisp - 59°F in kitchen patio; 58°F upstairs  
12:45pm now general high thin overcast  
with shadows. 1:59pm a few holes of blue, rest  
hazy cirrus. 2:41pm now sunny - one  
monarch to N mid-level of oak, landed briefly  
on a Pittos. when before (other years) did I  
see them in spring? has been about 60° then  
in sun - up to 77°F. 3:57 was 75% blue, no  
great plumes of hazy-feathery at edges from  
SW 60% of sky = 68°F in sun. 4:18 1 Fox feeding  
on samaras - Dweleu, other being persistent.

16 Mar. calm, overcast, 8:16 am 52°F on  
W in ave. all Plane trees are now out in  
leaf. 8:52 very diffuse sunlight - shadows  
I have heard several unfamiliar calls  
this a.m. Have not seen Haldea-cicadas  
lately. 11:44 sun out, sharp shadows but  
still overcast. 1:40 pm hazy sun. 1 monarch  
N by Pittos. 1:42 another monarch, strong  
flight over oak to N. 3:04 pm 68° no sun, now  
clouds are thicker. I put out "hen scratch"  
from pot stars - saw 5 bird-tails - love it.



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16 Mar., del Norte St., Berkeley, Alameda Co., Calif.  
5:52 complete cloud cover: 59°F a  
hint of sun far to W. as buff-pink  
infusion. Doves & towhees feeding  
on the little of + gr. of seed.

17 Mar. overcast, calm, 50°F. 9:09 am diffuse  
sun. 10 - 10:30 am sky opened up to sunny  
with high cirrus & lower hazy cumulus 5°F  
to Palo Alto this noon. 11:32 darker, no  
sun; a few medium big drops are falling. 3:55  
pm back home! The adventure with my  
pinto in San Leandro! Since noon increased  
clearing - now a few scattered cumuli to W  
with 67°F in sun.

18 Mar. Low fog 50°F at 8 am. 9:11 one bird  
in smaller than ♀ H. finch a strong white wing  
bar, thinner bill, no yellow - Pine siskin?  
feeding with doves & 1 house finch. 10:50 am  
from hazy sun to now blue overhead & fog  
only on the edges = 54°F NW E 1 m - re: trim-  
ming - the lower, more SE Fox Sq. nest was  
(its limb, i.e.) was dropped; leaving one  
"the upper" nest. 1:21 pm 60°F. 3 pm - 80°F in sun.  
3:11 That "siskin" is on the landing with  
chickadees & H. Finches at feeder - no yellow  
pale but head has a yellow tinge. 3:26 pm  
siskin, smaller, less bulky than H.F. at feeder  
but was pecking at seeds thru the plastic  
cylinder - didn't find the openings next to  
perches - bill much thinner than H.F. & looks  
longer. 4:56 pm high cirrus off to SW = 65°F.

19 Mar. fog early at 9 hazy sunshine. Noon  
except for a band of blue off to far W. its  
completely overcast with vague shadows.  
2 Fox Sq. among the tamaracs in NW corner.  
4 pm still overcast. 9:46 pm 50°F



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20 Mar. ~~del Norte St. Berkeley, Alameda Co., Calif.~~  
clear, 8:27 am = 52°F calm, quiet. 12:32  
clear, 64°F. hazy cirrus off to W 1 pm Fox  
Sq. among samaras - none to house so far  
today. 3:31 cirrus now over entire W. sky (N &  
= 80°F in sun. This is indeed the first day  
of spring; what a very quiet and mild  
house.

21 Mar. thin fog to 7:45 then partial clearing  
with few cirrus. 51°F at 8:00. 8:13 fog  
closed in again - no fog horns this a.m!  
It keeps opening a bit then closed again  
at best hazy sun 9:22 hazy clear with  
lots of high cirrus & fog horns never!  
61°F at 12:25 p.m. clear overhead; bank of cirrus W  
1:13 pm layers of high clouds to W. 3 pm almost  
complete cloud cover of many layers no  
shadows. 4:30 darker lower clouds -  
4:57 getting darker & heavier overcast.

22 Mar 8:16 fog gave way to clouds of a  
minibus character = 50°F slow clearing  
to 12:30; now looks like bits of fog  
drifting in. 3:31 pm absolutely clear, cool.  
4:35 fog coming in - big clouds

23 Mar. calm 51°F fog with 5-10% blue  
9 am almost clear. = 54°F. 2:45 pm a few  
high feathery cirrus. 80°F outside in sun -  
first really warm day.

24 Mar Fog. 9 am = 51°F. Sun out briefly at  
11:48, closed up promptly = 57°F 1:54 mainly  
hazy clear, still cool 59°F.

25 Mar 9:30 am back in house, clear here, but  
scattered clouds - fog to Faver hills & to S.  
quiet a.m. 9:54 am. = 52°F in shade. 11:26 = 53°F  
a case but bright day. 4:18 bright day, breeze  
cool - 58°F in sun. also annular about.



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26 Mar. ~~del Norte St. Berkeley, Alameda Co. Calif.~~  
clear, calm, dew, 44°F at 8:26 am - quickly  
5 pm several larks, a towhee, 1 junco, 1/203  
4 finches, Band-tails flitted but flew.  
6:02 before sundown - the aggressive ♂ in  
NW elm feeding on samaras. The other ♂  
caught at 3:30 on landing - caught &  
release mañana! (= on Madoc-Salmon Ave)

27 Mar. 8:10 a.m. 48°F, dew, clear here,  
fog about edges. More tree trimming  
today. Caught Fox Sq. to Salmon Ave. 12:30  
56°F a cool W. breeze. 1:11 pm fuzzy chunks  
of fog coming in. 3 on fog.

28 Mar 8:05 am 52°F; broken fog 8:43  
tree trimmers starting: on Zukelm with 1  
fox sq. high in upper branches and  
another on trunks lower down. 8:48  
Fox Sq. ran along 2" branches of NW elm  
then higher - among the samaras. 10:42  
am clear cool = 54°F. The Trimmers  
cut the main W. elm yesterday - of all  
small branches up to 50' & are now cutting  
#2 just about as severely. This saddens  
me. This will restrict the Fox Sq. which  
may chase them over here out of  
the neighbor hood. 3:05 pm 74°F in sun -  
a breeze & the first fingers of fog appearing.  
6:13 pm clear = 54°F a few small pieces of fog.  
6:44 more fog in, 75% clear. quiet evening  
29 Mar. fog, sun out by 8 am = 50°F 9:30 am 53°F  
clear except high cirrus to W - NW & what  
appears to be a bank of cirrus S to NE in  
distance. Trimming started at 9:28 with  
chain saw. Fox Sq. in at 7 am. Left at 11:40  
noon - clearer but some cirrus, = 57°F. 12:12 Fox Sq.  
eating samaras 70' up in second elm.



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29 Mar., del Norte St., Berkeley, Alameda Co. Calif  
3-4 fog coming in & stacked up against  
hills. 4:36 no sun =  $57^{\circ}\text{F}$ . 6:23 95% cloud  
cover;  $50^{\circ}\text{F}$ . Thinner trees!

30 Mar. Fog, 9 am first sun out - 50% open  
hazy fog clumps =  $52^{\circ}\text{F}$ . 9:35 am sunny  
almost clear,  $53^{\circ}\text{F}$  - 1 man arch from S  
to N well with me 20' away.

31 Mar fog at 9 =  $48^{\circ}\text{F}$  clear by noon -  
2 pm =  $55^{\circ}\text{F}$ . Daylight Saving Time clear.  
Breeze, in sun up stairs =  $57^{\circ}\text{F}$ . cool day

2 Apr 10:20 am fog to 9:30, now clear except  
for a few long streamers of cirrus =  $50^{\circ}\text{F}$ .

2 Fox Sq. among samaras/Navelin; big  
chase about trunk & large limbs of 2nd  
elm C.E. first samaras st. 3:40 just back  
from S.F. bright day the cool; here 70  
in sun. 4:39 pm 1 man arch top of oak  
high to N and fast, unusual!

3 Apr minor fog at 7; clear except for thin  
cirrus at 8 am. =  $50^{\circ}\text{F}$ . 11:53 am heavier  
cirrus from SW. 4:12 clear, hazy cirrus &  
 $90^{\circ}\text{F}$  in sun.

4 Apr fog low over hills with 80% cloud cover  
of cirrus & tropical like small cumuli. at  
6:39 =  $50^{\circ}\text{F}$ . Noon hazy clear =  $56^{\circ}\text{F}$ .

3:03 pm  $60^{\circ}$  in shade clear, warm few cirrus.

5 Apr fog. at 10:14 am =  $57^{\circ}\text{F}$ . 10:23 first  
vague shadows & few very small holes in fog.

2 Fox Sq. in this am. one is very scruffy  
with patches on back with under fur  
spiculated - last graded hairs - 10:55 sun in  
& out. Most fog dispersed over head lots to low  
=  $56^{\circ}\text{F}$ . Some high discrete cirrus. Hum  
one on 1:50 hazy - cumuli & bits of fog =  $58^{\circ}\text{F}$ . also  
rather breezy. 3 pm overcast clouds =  $57^{\circ}\text{F}$



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5 Apr. dd route St. Berkeley, Alameda Co., Calif.

6:34 broken sun with high cirrus & new  
fog moving in. = 55°

6 Apr. Fog, at 10:18 am, 52° F. 1:40 pm sun  
out, shadows not sharp - still overcast

7 Apr. Complete cloud cover, at 8:56 am 51°

10:30 am caught a Fox Sq. - to teller. There  
have been 2 - a well pelaged 1 & the  
molting ragged one which is so aggres-  
sive. The clouds persist dull light  
no sun. 11:44 the scruffy Fox Sq. up wine  
(line) to house lots of head-tails. 2 p.m.  
a very light rain began. 2:50 rain tapered  
off. 3:04 no rain, lighter & the first small  
streaks of blue to SW. 4 pm light, 71% blue  
to W. 4:25 a breeze, complete cloud cover  
but light, no rain since 3.

8 Apr. cloudy overcast, 9:07 am = 51° F. 12:16 pm  
still overcast but bits of sun at times, - 50%  
= 59° F same clouds - cumulus really develop.

3:04 bright sun, clouds thinner = 64° F in  
sun. An hour new Fox Sq. feeding on ends  
of branches - new growth but not leaves  
of the aab. white flowers on E man Pittos  
at N corner of house. 4 pm 75% clear

9 Apr. 8:41 clear at 7, new few cirrus = 48°  
1:33 pm = 65° F and leaves. 1 monarch flying  
about Pittos which now has white flowers  
- it landed briefly. 4:21 high raggy cirrus. 4:24  
Fox Sq. feeding in aab - little clusters of 2-5  
leaves are falling 4:51 - 1 monarch S to N.

new nice warm day = 74° F partial sun -  
10 Apr. 8:12 am = 53° F high cirrus aerial. 12:09  
dark of haze to W, more cirrus overhead, sharp  
shadows. = 65° F. 3:39 pm = 67° F complete over-  
cast after 2:30 pm.



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- 11 Apr., del Norte St., Berkeley Alameda Co., California  
8:06 = 57°F mainly clear, a few cirrus &  
bits of fog to S & in hills. 10:08 there  
★ has been a lull of weeks in foraging  
birds in oak - the winter feeders have  
gone. Now new leaves & grass add  
today. House sparrows & Starlings  
actively foraging. In afternoon: towhee  
& white-crown also!
- 12 Apr. clear, by 10:10 few cirrus = 59°F.  
10:am + no one in the oak tree. 2:11 more  
cirrus same way to W; 70°F in shade.  
3:27 pm hazy cirrus overcast = 71°F. 4:44 -  
starlings & H.S. feeding off & on mast of pine.  
Spec. about 2:30 - 3:15 -
- 13 Apr. clear 8:46 am = 56°F and first  
swallowtail butterfly about oak -  
starlings & house sparrows now  
in front yard in numbers. 11:04 am  
clear, warming = 67°F. a rather hazy  
cirrus W to S. 12:31 pm 72°F, but house  
colder. cirrus clouds moving N off to  
the western horizon. 6:48 almost a complete  
high cirrus overcast.
- 14 Apr. fog at 8 am, especially heavy over hills  
with breezes. 9 am scattered fog to W with  
lots of cirrus. 11:33 75°F clear, some high  
fog N few cirrus = 57°F, intermittent wind  
noon - sun out = 58°F almost clear, but  
patches of fog to N and E. 1:55 = 58°F,  
rather breezy - clear & rather bright. chunks  
of fog forming right in front of me to WSW  
& sailing rapidly to N from SW in general  
can't see any pile up yet. 4:46 almost completely  
foggy - still rushing N. = 60°F in hazy sun.  
getting windy.



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15 Apr., del Norte St., Berkeley, Alameda Co CA  
8:28 am = 53°F overcast - cumulo nimbus  
calm. Very active am. 10:01 high sun.  
planes approaching from N-nw which  
means 5 wind before rain. 12:45  
high overcast, breeze, hazy to bright sun.  
2:05 1 monarch over house fast & close  
down over oak to SW. 3:27 hazy sun  
& occasional breezes. 6:40 hazy sun & over  
head, dark tow.

16 Apr. = 57°F at 8:53 am high hazy clouds,  
occasional sun, also hazy. 10:05 am overcast  
thicker, no sun, same thin rolling type  
cumulus. = 60°F. Anne's apple tree in front  
yard is now partially in leaf & first flowers  
appearing & many small red flower buds.

11:45 am. more cumulus clouds & slightly  
darker. EXPERIMENT This is the nesting  
season, is it not? So far have seen  
1 scrub J. break a twig off the cedar &  
a house sparrow with a pigeon feather.  
So I went up in back & cut a small  
handful of twigs off of the Photinia &  
some central bare stems of ferns  
(sword type) & scattered them about the  
front on landing. They are 2mm to 4mm  
in diameter, (except the 1  $\pm$  in fern fronds);  
& 4" to 6" long. Who can resist. 12:30  
cars coming down del Norte from "the circle"  
have windshield wipers going (well, a  
few of them). Any rain drops here are  
very far apart. 1 pm = 63°F very diffuse  
shadows. Fox sq. foraging in oak - is it eating  
new growth of branches? under tree are small  
leaf clusters newly cut off. 4:04 heavier overcast  
- 60°F. 5:30 beginning of moderate rain!



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16 Apr., Del Norte St., Berkeley, Alameda Co., CA  
4 pm a typical song in backyard then  
at Wilson Warbler ac - ? 5:43 = 57°F  
and rain - big old drops. Finches feeding!  
5:56 = 57°F ± Rain =

17 Apr 8:15 pm. - 53°F overcast with clouds &  
a few small holes of blue. The aggressive  
Fox sq. has been getting thinner & mangier  
& scratches frequently. Bare patches  
about shoulders & flanks - tail ok.  
He was in prime condition in Dec. ±  
so winter is rough on him. 8:57 large  
patches of blue to w., no sun - clouds to SW  
& NW. 9:46 hazy sun no shadow. Cumulus  
from S with frequent 'holes' - 2:33 pm  
64°F, hazy - hazy cumuli, no shadows  
feels cold! Mail arriving only a stellar <sup>in</sup> cumulus

18 Apr 8:29 am = 51°F; Fog. 12:17 pm 59°F. Fog  
2:36 pm hazy sun out, a few small holes in  
the fog. 3:13 almost clear, 62°F. Most of the  
Elmson El Dorado St 1/2 bl. SW have big  
pale yellow clusters of samaras 4 pm fog slowly  
returning. 4:10 some high clouds & fog coming in.

19 Apr. 50° at 8:11 am with patchy fog & cirrus.  
1:50 pm Guess the fog is really cumulo-  
nimbus - a heavy light rain is falling.

2:37 sun out, bit of a breeze more bluey -  
20 Apr low clouds/fog - broken 8:53 = 54°F  
11:28 am " " are now cumulus developing -

perhaps thunderhead the pm. = 57°F  
12:13 mostly clear; 59°F; one monarch about  
Pittos. (not many flowers left). 2:21 61°F  
7:10 clear, 59°F

21 Apr fog; at 8:54 am = 52°F We are ending the  
fourth year (winters) of little rain & a  
fall coming dry season 12:50 = 57°F



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21 Apr., del Norte St., Berkeley, Alameda Co., Calif.  
after 3 afternoon openings in fog. The goddam  
Fox Sq. will not go into the trap. & scare  
the other one away  $5 \pm$  days ago. This one  
usually comes up the utility "line" to  
ledge, etc. He loves peanut butter - mess  
but will not enter trap. He gets angry at  
me after chasing "him" down line to  
pittos. & he scalds me - chattering away  
& I suspect the hawk is having an effect  
on Fox Squirrels. I put the only ♀ in taken  
a week + ago. also this one is ragged, so  
when I first started taking notes a ♀  
with a severe case of "mange". that was  
after a "good year".

22 Apr. multi-leveled clouds. after traps at  
8 am. 8:46 am = 54°F. 9:58 am very light rain  
didn't last long. 10:51 hazy shadows & sun  
still overcast. 11:57 am still hazy sun = 59°F.  
3:21 a light sprinkle. 3:39 saw his traps straight  
down. Last night a respectable rain!

23 Apr. ↑ scattered clouds; 8:20 = 53°F.  
8:55 very light rain. 9:27 brief showers &  
brief periods of blue sky in small patches  
still 2 ♂ (?) (no high balls or litter now)  
the aggressive screaming one & one  
that use to be in good pelage & now  
getting ragged on rump, but not  
shoulders which is shiny & not  
as aggressive. And to have both are  
untrappable. 12:40 complete overcast  
& windy. Sprinkles. 2:45 fluffy cumuli & blue  
sky; 63°F. 4:04 95% clear, 78°F in sun.

6:11 strong wind; high cirrus, haze to W. = 66°F in sun

24 Apr 50°F at 9:20 am clear, calm 1:39 =  
61°F.



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25 Apr, ad harte st, Berkeley, Alameda Co CA  
clear except for a few wispy cirrus  
54°F at 8:28 am. 11 am. more high, thin  
cirrus. 2 pm = 72°F in shade

26 Apr clear 49°F at 7: am. 11:17 flew  
small cirrus; 63°F. 1:27 2 Fat Sq. to oak  
& back from Pittos together - these are  
both ♂♂ unless a new one. Both thin &  
wabbly on wire. 1:33 the aggressive-mungy  
one is walking back & forth between Pittos  
& oak & looking down. Can't see other.  
Went into Pittos & back, then back again.  
& then went down stairs to front porch.  
The 2 went thru the oak N to S down  
main branch & up to S. into Pittos net  
near to S. The second one: was follow-  
ing - head under arch of tail and  
at side view it was definitely smaller.  
So I guess this may have been a juv.  
"maiden voyage" - the ad was showing  
it about. The "juv." fed 3' in Pittos  
to S. Then they went up trunk of cedar  
40' & off horizontal branch to tree oak  
L. Mousauer's front porch. Conclusion  
the other adult haven't seen active  
mammary glands (on either ad size  
individuals). Also where is the nest?  
2:31 pm ad - scratched flank out of Pittos  
to S. & into oak. 2:33 ad. on line coming to  
house & into N. Pittos. 4:33 in sun = 76°F  
27 Apr clear, 53°F at 8:05 am. 8:43 high  
about 15 geese? in a "V" formation to  
NW, fairly fast. 10:43 more cirrus to SW-NW.  
= 64°F 10:58 Fat Sq. - the shy one of the 2 ads  
for the first time saw 1 Teal, a ♀?. Its  
coat is in fair condition, but does scratch.



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27 Apr, ~~del Norte St.~~ Berkeley, Alameda Co. CA  
11:10 am. ♀ in try to jump onto D-4 feeder.  
Then scroungy and ♂ juv. from oak  
to Pittos. via line - the juv. following  
closely, some trouble with balance &  
jumped ab into Pittos 3 few more cirrus  
of the broad haze kind. 74°F.

28 Apr. clear with few high thin cirrus; at  
9:14 am, 57°F. 10:14 am a broad band of  
deep cirrus N to S to the W. = 60°F. The  
strings of cirrus making this way. (W  
to E.) 11:52 am periodic haze shadows  
as cirrus above sun = 64°F. 12:59  
caught Far Sq. (? the ♀); to tiller. 1:26 pm  
now almost a complete cover of high  
thin cirrus (fag over ocean & smag low,  
to W & S.) with diffuse shadows.  
Heavy overcast 3:30 - 6. 7:23 almost  
clear: 63°F.

29 Apr clear, cool 9:15 = 53°F with breezes.  
9:37 am one came up line. Then made  
running about & grunts - another one  
was here! Then I went running  
down line into oak. Fair gusty wind  
at 12:36 = 61°F, 1:22 very gusty winds.  
3:20 still windy & 62°F in sun! cool day

30 Apr clear, cool, windy 8:14 = 55°F.  
9:43 am 60°F breezy. 1 pm 1 meadow to N  
rather low & slow. 1:14 pm 70°F in shade in  
front. 4:30 suddenly lots of wind. 6:53 pm = 88°F  
in sun. right now little wind. clear No clouds

1 May clear, breezy, cool - 9:38 = 65°F  
when some very thin cirrus to NW. 10:52  
now long strings of real cirrus. heavy cirrus  
to far N. 2:40 pm 80°F. almost entirely clear.  
no bird activity during heat of the day



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2 May, ~~Edharte St, Berkeley, Alameda Co CA~~  
clear, 7:54 am = 54°F 9:35 am 62°F Very  
little bird activity today. The aggressive  
♂ Fox Sq. in 9:15. Haven't seen the  
juv. Fox Sq. of late.

3 May thin fog, at 8 am = 53°F. 8:30 am  
almost clear 3:09 pm 66°F — a cooler  
day. 4 pm Fog all along ocean-hills, spilling  
thru gaps & into S. Bay.

4 May clear at 6:30, but low cold fog  
5 blocks to S & W. 7:58 am = 51°F. 4: pm  
98°F in sun.

5 May clear at 7 am. Fog W & N from  
7:30 to 8:30. 56°F at 8:56 am. 4:15 pm  
clear, cirrus a fog to W. = 88°F in sun. 5:10 pm  
= 71°F new after bits of fog off to W & forming  
higher the next overhead. 7:29 = 57°F, bands  
of cirrus radiating from NW. Some minor  
fog.

6 May 1990 fog at 7:30 clear 95% by 10 =  
57°F, breezy fog to W horizon. To Palo Alto  
7 May has about noon clear 1:45 = 76°F  
in shade.

8 May clear, cool — 11:40 am = 57°F; 1:55  
pm breezy, 59°F. 4:35 pm in sun 68°F hazy  
breezy. 7:02 = 70°F in sun, fog coming in.

9 May - fog - at 8:04 = 54°F. breezy. 11:20  
still breeze bits of sky, tho no sun yet. 12:18  
80% clear, windy, = 59°F. 1:43 windy, 90  
% fog. 2:24 very windy 25% clear tho hazy -  
3:31 off & on sun, fog overhead, clear to W. breezy -

10 May 8 am cloudy 51°F 11:52 mixed fog clouds  
& sun = 60°F afternoon a few high 'mares tails' -  
4:30 hazy clear = 65°F in sun. 6:20 bands of fog to  
N & NE, 1/3 hazy sun.

11 May broken fog - sun. 8:13 = 52°F,



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12 May, del Norte St., Berkeley, Alameda Co. CA  
7:30 am 79°F scattered low clouds  
at 10:11 = 55°F. 11:25 mainly clear 57°F with  
some wind 3 pm = 64°F in sun; now  
high filmy cirrus & mallee's tails.

13 May 7:30 am 48°F clear; 9:10 = 53°F high  
cirrus. 2:54 pm hazy cirrus - 66°F in sun

14 May a few high cirrus, windy 8:18 = 51°F.

3 pm clear breezy & 65°F

15 May 10% small bits of fog, windy, 48°F, feels  
cold. Have not seen the juv. Fox Sq. just  
the 2 adults. 10:28 hazy clear, 55°F, quiet  
breeze. Trapped and weighed the ♂ of local  
pair & transported to Tilden. This guy had  
good pelage (the ♀ is the scruffy mangy  
one I guess) - he was making hell & chatter  
going up.

16 May Fog, 8:30 am = 52°F 9:30 diffuse  
sun, bit of blue. 11:53 clear except for  
a few hazy cirrus - 56°F a fox sq. up  
line from oak to landing, not the  
mangy one! Its tail seems not as  
long as others. Is this another new  
one? It seems at times all of the  
right places - as if familiar with scene

17 May Fog, 48°F at 2:30 am its dark! Night  
breeze. 9:01 am 49°F, low dark clouds to N.  
10:45 breezy & periodic brief patches of blue  
top & high sun. 11:00 windy, 50% clear  
low clouds to N. sunny. 3 pm increasing  
cirrus, more wind 59°F. no sun. 4 pm fog  
coming in, hazy sun.

18 May Fog, breeze, 51°F occasional strong  
gusts of wind. 3:06 pm, a new Fox sq. extremely  
pecky, lots of tail flipping & chattering from  
the line, smallish. This must be the local juv.



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18 May, del Norte St., Berkeley, Alameda Co, CA  
3:08 pm =  $64^{\circ}$ F was broken sun, now is

general heavy cirrus overcast no shadows

19 May 8:48 am  $51^{\circ}$ F variable cumulus  
clouds from W. slight breeze. 11:06 am  
breezier,  $54^{\circ}$ F, more cumuli & heavy cirrus  
above them, darker cumuli to NE. bright  
sun. Moon = almost complete cloud cover  
& no sun/shadows, breezy. I think the  
wind is more from S now. 3:11 clouds  
getting darker to N & few drops. complete c.  
cover. Rain is forecast. 5:49 cloud cover &  
light, but no sun. Not heavy overhead.

20 May wake up about 5 am to rain!  
at heaviest - moderate. 9:22 now  
very light the birds feeding are all  
soggy including the Fox Sq. =  $52^{\circ}$ F.

12:10 a moderate rain falling. 3:14 dark  
cloud but no rain, actually rather bright.  
6:26 sun, but clouds moving in. Radio =  $1/4''$   
21 May same blue & clouds to SW at 6 am,  
by 6:55 am overcast of low clouds. 8:04 am  
 $54^{\circ}$ F. 9:26 am a few holes in overcast, hazy sun  
 $56^{\circ}$ F. 11:54 am =  $63^{\circ}$ F; clear overhead, bright  
sun, to SW - NW cirrus & high stringy cumuli.  
4 pm many layers & kinds of clouds & cloud cover.  
6:39 complete overcast.

22 May 6:49 =  $57^{\circ}$ F overcast, dark from  
? sprinkles. 8:13 =  $61^{\circ}$ F. 10:27 am =  $64^{\circ}$ F,  
scattered cumulus of different layers &  
shapes - no sign of build up types. bright  
sun intermittently. 10:57 The ad. Fox Sq on  
ledge - end of tail gone - it appears to have  
large testes. 11:47 am Cumuli now are devel-  
oping more form & building up. Becoming breezy  
and it's now  $70^{\circ}$ F. are we going to have



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22 May, del Norte St, Berkeley, Alameda Co, CA  
3:55 pm drove to Kensington 95% sky  
is overcast & mottled dark, dark, breeze  
4:07 a light sprinkle. Stopped after 5 minutes  
= 65°F. 4:19 a light downpour! 6:53 pm 59°F  
still a light rain. Everything is wet, a consist  
ant light rain. Moderate rain all most night

23 May 8:13 am = 51°F scattered clouds, cumulus  
esp. to west. 8:58 so far only juv. Fox Sq. about  
on line - aab; ~~at~~ 10:11 am = 55°F mainly clear  
with only high cumulus that look like low  
cirrus. 10:42 am the scruffy-aggressive (?)  
Fox Sq. in far first this ~~at~~ a.m. 10:55 am almost  
clear; breezy. 56°F. A few small well formed  
cumulus building up. 11:33 a line of cumuli  
forming from WNW on to NE. They are building  
into well formed baby thunderheads over the  
hills - moving NE. 3:35 pm 98% clear, breezy  
& 75°F in sun. [.42" rain in Oakland, we get  
more so last night we picked up 1/2" ±]

24 May clear, 8:01 am 48°F calm. 8:24  
am, 1 small cumulus WNW almost overhead  
whispy & thin, seems to have formed in  
place. 9:36 am 3 small forming cumuli -  
high toward W & NW 2:05 pm a few cumuli  
over hills no build ups. Now hazy cirrus from  
SW, otherwise bright sun. 3:34 greater portion  
of sky now hazy bluish cirrus + 1/2 clouds. -  
is a storm due? 5:54 clear windy. Storm  
approaching tomorrow night

25 May 8:10 = 50°F a few cirrus & cumulus  
ill-formed from S over hills. Calm. 57°F  
at 11:38 am. 11:55 getting breezy. A thin cirrus  
hazy over most of sky = 58°F 12:45 to SW some  
cumulus of coastal hills; W horizontal dark clouds.  
General hazy overcast at 1:05 = 60°F & W clouds



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25 May, all night St. Berkeley, Alameda Co. Calif  
cloud much closer, breeze picked up. 3:32 pm  
complete overcast, breeze = 64°F. 5:24 pm  
a few drops 6:15 no rain, cloud cover lower &  
darker. 6:35 pm very light rain, occasional gusts  
of wind.

26 May a little rain last night not much  
8:54 am = 54°F calm scattered clouds. 3:35  
pm off & on sun & misc clouds; now 70°F  
in heavy sun, a varied overcast, breezy.  
6:05 clouds bit heavier = 62°F breezy.

27 May 8:20 am 55°F soft rain (since before  
11 last night) almost calm 8:49 now  
moderate rain & occasional breezes 10 am  
rain has essentially stopped. overcast, a  
bit breezy. 11:33 no rain windy at times = 61°F  
12:07 pm windy, a very light rain clouds fast  
to N. 12:30 now a driving moderate rain.  
small drops falling almost heavily. 12:57  
rain tapered off. 1:57 light shower again.  
2:23 pm 60°F light rain these May rains have  
been perhaps 1/2 until now. This must be  
that much. So late in the season. 4:36 pm still lite  
rain only a dove & a hungry finch in.

28 May scattered cumulus, part sun, = 56°F  
rather calm - last night & yesterday 3/4 to 1".  
mainly clear at 2:50 with a few big fluffy  
cumuli. Windy & 62°F 6:10 - 72°F in sun  
clear windy.

29 May cloudy, cumulus, calm 8:41 = 56°F.  
11:50 am the low drifting cumuli have cleared  
to bright sun with some ill formed cumuli  
& some high filmy cirrus = 60°F at noon.  
3:55 95% clear, slight breeze, 81°F in sun. 4:09  
what looks like first oak with about oak. only 1  
6:46 pm new clouds to SW & W rather heavy, clear <sup>over-</sup>head.



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## Egg experiment

29 May, ~~del Norte St., Berkeley, Alameda Co., CA~~  
Same time back I found some hollow  
plastic eggs in a "Novelty Store" in Palo  
alto -  $1\frac{3}{8}$ " x 1". I want to try it on  
the jays! Now not wanting them to fly  
off with it I made a hole & filled it  
with lead shot, a la Mark Twain so  
it weights 54.3 grams. It's pigeon  
size also, so what will be the reaction  
of doves & band-tails!?



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30 May, ~~del Norte St.~~ Berkeley, Alameda Co., Calif  
rain started lightly at 2:33 am. continued  
stopped about 9:30. overcast, slight breeze  
56°F. 11:24 clouds breaking up, light wind.  
12:15 complete overcast, cold, windy. 2:36  
cumulus soaring through to N. few very  
light sprinkles 4:05 shower & breeze - rather  
stiff.

1 June 7:15 pm a few filmy & very ~~discrete~~ cirrus.  
warm day, wind easterly. Oab moths 3+.

2 June 4:56 = 93°F in sun, clear & calm.  
5:58 = 6+ oab moths!

3 June 1:25 pm clear, but now some filmy  
cirrus off to W; 67°F faint in shade - no  
oab moths yet. 5:52 whiffs of fog to N & N!

4 June clear, calm warm all day -  
6:34 oab moths 6+; 90°F in sun.

5 June clear calm 8:31 am = 56°F  
10:33 am no oab moths very little bird  
activity

6 June fog, 59°F at 8:11! 11:43 pm still fog  
62°F. 12:45 a few holes in fog which is moving  
N = 67°F. 1:33 pm 67°F fog few holes first oab  
moth of the day. 3:03 broken fog, predict sun  
72°F. 3:07 1 oab moth.

7 June clear, 8:30 am = 57°F. 4 pm 100°F in <sup>sun</sup>.  
4:24 2 oab moths.

8 June clear, at 9:41 am = 71°F, calm. 3:57 pm  
a hot day - in sun = 109°F! Calm, clear  
except some filmy cirrus off to <sup>S.</sup> 4:04 1 oab  
moth. 7:09 clear, 102°F - 10 oab moths.

9 June clear except for long feathery cirrus, at  
10:08 am = 65°F. 11:57 am = 70°F & still feathery  
cirrus S & N. 3 pm more cirrus, 2/3 cover = 74°F

10 June 6 am fog; clear & breezy at 9 am = 58°F.

3:50 = 90°F at side, clear; 2 oab moths at same time



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11 June, del Norte St, Berkeley, Alameda Co, CA.  
8:40 am: 55°F, clear, calm. 3:58 pm 93° in  
sun; but not a hot day! clear. Aha, 4:15 3 orb  
snails at one time, SOB! 10:58 am back from  
Tilden where I delivered a Fox Sq. - could  
not tell which one.

13 June clear calm 54°F at 8:40 am. 9:44 am  
the juv. Fox Sq. in to feed on pigeon food -  
so yesterday I caught 1 of the adults.

14 June 8:11 am: 56°F scattered low clouds going  
N. 11:26 am the big ♂ Fox Sq. in briefly - has  
been clear since 10 am - 1:22 pm breezy &  
low clouds. 6:40 pm low clouds roaring back,  
same breeze, 69°F in sun.

15 June clouds the lightest of rain! a trace?  
fell last night (2 am. +) wet deck, dry sidewalk  
walks at 8:21 am = 53°F same intermittent breeze.  
10:32 am still overcast, light breeze, no drizzle =  
56°F. a few minutes of sun at 4 pm. rest is over-  
cast & breezy. 6:53 = 56°F. feels cold.

16 June general overcast, deck, etc wet. at  
9:09 am = 53°F

17 June back at 1:12 pm clear, slight breeze, 61°F  
at 2:16 pm

18 June Fog, at 8:15 am 52°F. 12:40 beginning  
to clear up - 50% clear, breeze; some sun, 63°F

19 June at 6:30 am a rare low fog (below  
level of house), but almost all burnt off by  
8 am; 8:15 am = 54°F. Sun out.

20 June clear, calm. 9:32 am = 67°F. Now -  
caught Fox Sq. to Tilden (think it was the juv.).  
2:36 = 82°F.

21 June low fog, calm, 8:11 am = 57°F. Fox Sq.  
in at 7 am. 8:30 am fog swirling past upstairs  
window. 11:45 am a few small holes in fog; bright  
days - sun, some breezes. Seen no orb snails lately



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21 June, del Norte St., Beckley, Alameda Co., CA  
yesterday noticed several branches of  
maple are putting out new growth -  
a pinkish tan, on E. side & 25' up, 2:14  
p.m. spotty fog & sun, breezy. After 3 all fog  
7:36 = 57°F heavy breeze. little bird activity  
never did really clear up. Banded 2 doves

22 June Fog again 7:54 am = 56°F. Noon  
= 64°F patches of blue - still fog, high cirrus  
& breezy. 3 ± clear warm & high cirrus  
clouds to N. 7:12 pm = 78°F in sun.

23 June Fog, 9:20 am = 57°F. 12:11 sun out,  
still fog tho bright = 66°F. 1:30 breezy with  
bright sun & nearly clear; whips of fog to N.  
6:52 pm = 79°F in sun; clear except few very small  
cirrus, a bit of a breeze, fog off to N.W.

24 June 10:51 am = 57°F fog, calm.

25 June Fog, 9:26 am 59°F clear by 11 am  
7:29 pm 81°F in sun; sparsely clear.

26 June Fog till 8 am clear by 9 am (= 56°F)  
calm.

27 June clear, 11:am = 64°F. Clear & warm all day

28 June patchy fog at 7, clear by 8:15 am, a  
bit of E. wind.

29 June Fog, at 9:34 am 57°F. W. breezes.

Pittosporum = clumps of green fruit, a few  
old orange ones & 4 small clumps of white  
flowers. 12:25 pm first brief bit of sun -  
my view is still overcast. 1 pm 95% clear  
except far to S & W. = 66°F

30 June clear; 10:14 am = 62°F. 4:12 = 105°F

in sun, clear except small cumuli to S; for.

1 July fog breaking up by 7:40 am & retreating W  
by 9:30. nice fluffy small cumuli to SE to  
SW. 58°F at 9:39 1 pm more, larger & denser  
cumuli overhead & to S where also overcast.



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1 July ~~all night at Berkeley, Alameda Co. Calif~~  
3:25 pm narrow long heavy streamers of cumulus  
from SW, slight breeze, 72°F when seen  
behind clouds. It looks & feels like the  
approaching storms in Montana. 6:22  
55% cloud cover, clear far to WNW. res getting  
darker, heavier clouds

2 July clear, except for 10% cumulus from  
SW. at 8:15 am = 57°F.

3 July clear 8:12 am = 59°F to P.A. moonish

4 July " 4 pm = 91°F in sun.

5 July fog, breaking up a bit at 8 am = 61°F.  
9 am 50% clear, calm = 62°F; 11:10 am = 67°F  
clear except bank of low clouds W. of coastal  
hills. 4:24 pm = 92°F in sun, sunny, some  
thick cirrus or thin wispy cumulus from SW  
1/4th cover.

6 July fog till 8:15 & by 8:50 am only a few  
whiffs of fog = 60°F. 4:42 pm = 102°F in sun.  
clear, a quiet day. little bird activity.

~~clear~~ 7 July clear 83°F, sun at 3:28 pm.

8 July fog cleared by 10 past 1/2 + by 3:50<sup>pm</sup>

9 July fog, 9:36 am = 63°F. NW at 9:49 am  
still 90% overcast.

10 July fog, beginning to break up at 8:15 am = 57°F.  
at 7 pm well formed small fluffy cumuli  
overhead from E in a long line. am = foggy

11 July fog over bay, clear overhead. 57°F  
at 8 am. with streamers of small cumuli  
SW to N. 10 am heavier cloud cover to S with  
it appears, thunderheads building up. Seems  
a high pressure center in Pacific is catching  
up tropical moist air to S. 12:30 pm varying  
cumulus 50% + cover; brief shower of huge rain drops.  
80% clear at 3:10 pm at 75°F in sun.

12 July 90% cumulus cloud cover 8 am = 60°F



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12 July, del Norte St. Berkeley, Alameda Co. Ca.  
11 am = 67°F 90% clear.

13 July a Friday; fog till 7:30 am then  
same old cumulus from SW 8:28 am = 60°F  
9:30 am still same lingering fog to SW to NE  
lawish; sunny here = 61°F. 3:23 pm all clear  
& 73°F in sun.

14 July Fog, at 9:02 am = 58°F. 90% + fog but  
intermittent sun at noon ±. breezy. 1:44  
pm 1/2 fog to N. breeze & 64°F. Fog in after 3—  
7 pm heavy fog, not law = 61°F. bit of w breeze.

15 July fog; at 9:46 am = 59°F. 10:52 after small  
hales in fog & periodic dull sun = 63°F.

16 July 8 am = 57°F Fog. 11 am fog somewhat  
dispersed to misc. cumulus & some are  
beginning to build up. 1 pm a strange mix  
of high haze cirrus, some cumuli & fog  
coming back in from S! a stiff breeze. 4:15  
less fog & more cumulo-nimbus, darker, very  
overcast to S. Looks like imminent rain. 7:30 pm  
bright sun with 40% high cumuli = 66°F

17 July fog, 8:25 am 60°F. 9:15 am 20% blue  
rather calm. fog breaking up. 11 am clear &  
= 65°F. 2 pm = 71°F with several cirrus clouds.

18 July 8:25 am fog under (typical) cumuli  
at 61°F. 8:57 am a mad race thru oak & 2  
Fox sq. appeared one with a wild leap to line  
& ran up line & leaped into Pittos. Other  
(chaser) retreated back into oak. One did  
lots of chattering. Fox weeks now only 1.  
Fox sq. absent — this is first indication of a 2nd.  
9:55 am, now brighter, tiny amount of blue but  
cumulo-nimbus overcast.

19 July fog, 8:16 am = 59°F. 9 am first sun out &  
breaks in fog. 11 am fog is back, = 65°F. clear by  
late afternoon. not a warm day



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20 July, del Norte St., Berkeley, Alameda Co, California  
fog to 9:49 am = 64°F when some diffuse  
sun out. 11:25 am 50-50 fog & blue, calm  
& 61°F. 5 pm fog coming in. 7:10 = 64°F, Fog

21 July fog 10 am = 63°F.

22 July fog to 11 & hard by 4 -

23 July fog, 9:30 am = 54°F. 3:31 pm = 78° in  
sun. has been clear - saw a hawk at fog  
from S & W.

24 July fog to 8:30 then 1/2 blue = 57°F.  
10:35 am clear, breezy & 59°F.

25 July fog, 60°F at 8:45 am a little breeze  
fog till 11. cool day

26 July fog, 8:25 = 59°F 4 pm clear = 79°F

6 pm fog - 64°F fog broke 10:30 am, but  
scattered fog to 3 then clear calm & over 80°F  
fog in before 6. 7:20 = 61°F

30 July fog 8:18 am = 54°F. 11:20 am sun  
out & hazy, still fog overcast in my view.  
clear noon - 4. 6:30 : 7 dunes, most molting  
2 towhees, few finches later J.

31 July fog. Landing wet from a drizzle;  
9 am = 55°F. 2:15 pm diffuse light, still over-  
cast & 64°F.

1 Aug fog; 1:20 no sun thus far = 63°F.

2 Aug fog till noon, cool, 1:13 1/4 fog bright  
sun & 65°F.

3 Aug 11:25 am fog again = 61°F slight breeze.

1/3 blue at pm, breezy. Scattered clouds all pm  
7:37 pm 2/3 fog, bright sun = 64°F calm. fine day.

5 Aug fog, pretty clear by 9 am clear, warm  
during day. 8 pm clear = 65°F; 1 cirrus to NW.

6 Aug clear, except for growing cumulus condensing  
esp. S & W. 3:30 pm increasing clouds 70°F getting  
darker.

7 Aug. fog S - NW plus scattered cumulus <sup>cecm</sup> 8:35 60°F



7 Aug, del Norte St., Berkeley, Alameda Co., Calif.  
9:55 am dark & drizzle, breezy. #2 Fox  
sq. on leaving big chase area & #  
that down line into Pittos. 12:35 pm  
pretty clear only a few small cumulus. 65°F.

8 Aug scattered cumulus 50% ±; 8:30 am = 64°F  
by 11 am 95% clear; 71°F. 3 pm clear hot 80 +  
4:20 fog in, in patches thence head to SE.

9 Aug heavy cumulus at 7:30 am. 9:24 gradually clearing. 11:11 am = 65°F. 3:17 pm over-  
cast (? fog?) = 70°F

10 Aug fog, rather late, clear by 9:45 = 62°F  
fog back by 6 pm hot about day. 7:33 pm a  
fine drizzle falling. = 63°F. heavy fog

11 Aug fog clearing by 8:30 am = 58°F. 10:30 am  
back to complete fog. 11 am. fog opened, now  
sun with wispy cirrus.

12 Aug fog to 11:30 ± am breezy.

14 Aug fog, highly wavy for hrs 11-12; then solid -  
63°F. 3:10 pm breezy; fog lifted a bit to reveal  
small cumulus; = 64°F no sun. 7:30 pm cumulus  
c. sunny 64°F.

15 Aug mix of fog (about hills) and clear - SW-NW  
3:25 = 57°F

16 Aug BLC up

17 Aug fog, with light drizzle at 8 am. 10:08  
65°F. Pretty much clear by noon, plus high  
feathery cirrus. 4 pm chunks of fog coming in.

18 Aug fog, plus high over cast with same  
lame cumulus, 9:30 am = 64°F. 11 am = 65°F  
1/2 clear, but chunks of fog drifting NE.

19 Aug minor scattered bits of fog.

22 Aug light scattered fog 7 am + 9: am = 61°F

23 Aug fog, clearing by 9:30 am = 62°F. at 9:30 am  
Fox sq. feeding on ends of oak branches - eating  
developing acorns? 10:30 just about clear.



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23 Aug, del Norte St., Berkeley, Alameda Co., Calif.  
4:21 pm varied sunny after noon with  
fog bank to W-N and occasional whiffs  
to NE = 83°F in sun.

24 Aug. Fog, breezy. 57°F cool am.

scattered fog & patches of blue & sun off &  
on all after noon 4:30 in sun = 76°F, wind  
7:50 pm clear, calm, new moon, clouds far to W.

25 Aug cloudy, same fog, some cirrus; 7:30 am  
= 57°F. 9:11 am = 62°F. 10 am mix 1/4 blue,  
some fog & bands of high cumulus-cirrus.  
noon - sun out, still lots of multilayered  
clouds, breeze & 65°F. 3 pm more cloud cover.

26 Aug 75% cloud cover - cumulus - 10 am = 67°F,  
12:38 pm 74°F some large dark cumulus.  
4:11 breezy, few more darker cumuli. - 84° in sun.  
27 Aug clear, clouds (or fog) far to W. 8:30 = 62°  
calm. 9:40 first small (& 6 in #) cumulus  
forming in blue in front & up from me  
to N.

28 Aug. clear, except high feathery cirrus &  
few whiffs of fog. 9 am = 64°F. 11:15 am almost  
a consistent high overcast, sun alternates  
between bright & diffuse

29 Aug Fog, sun out by 9 am (= 62°F), many  
layers of high clumpy cirrus 80%+. calm.  
Tot sq. spending much time feeding in oak on  
acorns & steps below are covered lightly with  
bits of small acorns! 11 am - in 1/2 frame 10%  
clouds to 60%+. THE FIRST MONARCH TO  
SOUTH at this time late pm a few thin bands  
to N - cirrus. 7 fog returning in huge drifts.

30 Aug variable patchy fog - 8 am = 58°F. 1:30 pm  
clear = 71°F warm in sun; cool breeze in shade  
6:40 = 71°F, clear except a few clumps of fog to N.

31 Aug complete fog cover, 8:22 am = 60°F



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31 Aug, all night SE, Berkeley, Alameda Co., Calif.  
10:18 am Red Admirable butterflies (5) have  
been flying about & landing on ex-  
posed branches of oaks - these are the  
fastest & most erratic of butterflies  
about. = 65°F diffuse sun a few patches  
of blue.

1 Sept clear with only a few small patches  
of fog. 10:30 am - 64°F a cool breeze -  
in shade - feels like late fall.

2 Sept clear early, 10 am = 64°F. 3:22 pm clear  
alm & 72°F

3 Sept broken fog to 9 I am = 59°F calm &  
quiet. Warms up pm

4 Sept patchy fog to 9:27 am when high  
sun & 70% clear. 2:15 pm = 68°F (in shade) &

1 monarch to SE (top of W elm) 2:19 pm  
another monarch. 4:38 = 80°F, 1 more monarch.  
6:45 pm 25% banks of falling fog from SW  
= 77°F shade.

5 Sept clear, 8:33 am = 57°F. nice day

6 Sept fog pretty well broken up by 8:50  
9 am = 58°F. 10 am = 61°F vertically clear.  
noon 63°F clear, slight breeze.

7 Sept clear, except narrow band of fog to W  
8:15 am = 55°F decs this am.

8 Sept clear, 9:15 am = 59°F. 10:33 am 1 monarch  
to S ledge height. 12:09: 77°F 1 monarch high  
up to 3/4 cedar height to S. - SE. 6:13 pm  
in sun = 74°F a few high deserts cirrus. a big  
aggressive Fox Sq (the one I haven't been  
able to catch) feeding - big, old black marmoset  
on side down from arm pit to ♀ - is the  
other one about a ♂? More cirrus - short  
clumps in bands

9 Sept clear & calm, 11:30<sup>am</sup> = 68°F



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9 Sept, del Norte St., Berkeley, Alameda Co., Cal.  
They are cutting down an Eugenia tree  
in front yard of house next door to S.  
It is diseased, 45' high + very dense.  
Band-tails have nested in it in early  
80's & I suspect Fox Sp. have nested  
in it this year because the juv. came  
from that direction & no other likely  
candidate.

10 Sept Fog; 8:35 am = 57°F. 10 am first sun  
but no blue in my view. = 61°F. 10:30 am is  
clear & a breeze (mild). Noon = 62°F, with  
hazy sun & sky and small bits of fog.  
3 pm clear calm, fog hung far to W. = 66°F.  
clear & 59°F at 9:15 pm

11 Sept Fog. Started breaking up about 9:30  
breezy. Sunny pm 4 pm feathery cirrus  
breeze & 94°F in sun. In early afternoon  
Fox Sp. out yard to line then into Pittos.  
carrying something 2x3" about head-  
under. Is this a juv. where is nest?  
why after Eugenia was cut down?

12 Sept clear except for bands (W to N)  
of high cirrus in time - 7 am to 8:25 moved  
to almost overhead. Yesterday I saw  
2 Monarchs going S. 10 & 2. 11:30 almost  
clear; 1 monarch to E low over house.  
69°F, 11:53 am another monarch, same.

6 pm = 71°F clear, now rather calm

13 Sept Fog until 9:30 + am; 10 = 60°F. A few cirrus  
in mid am. Then from 1 on great long  
thin bands of thick cumulus (?) clouds  
S to N. at times dull sun. A real feel of  
fall (late) weather in air. Will this be an  
early & wet winter? 7 pm clear = 65°F "cool"  
& 9 Sept scattered fog 50-90% cover, 8:11 = 57°F



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14 Sept, ~~del Norte St. Berkeley, Alameda Co., CA~~  
9:30 am new fog blanketing up 50% clear  
10:40 am 1 monarch N to S  $\frac{1}{2}$  up oak so  
flying low (& fast). = 62°F. Some of the  
plane trees on 'old grove' are brown -  
my elms are ahead in changing / falling.  
clear at 4:30 = 79°F.

15 Sept clear, but for few isolated whiffs of  
fog (W & over hills) 9:am 59°F. 10:38 am  
= 63°F 2 monarchs from N - 1 fast at  
roof level; 1 large gliding over top  
of oak (both to SE). 11:14 another mon-  
arch to SE. 6:47 meeting sundown, clear  
& 70°F quiet - only a mistle & a petiole.

16 Sept clear 9:37 am = 61°F

17 Sept clear in Palo Alto; home 1:25 pm clear  
heavy fog here by 7 pm - = 58°F

18 Sept fog; breaking up a bit at 9:30 then  
heavier at 10 am. 10:36 am 63°F 1 monarch  
to S over house noon - new high  
feathery cirrus from the SW. 2:44 1 monarch  
to S over oak = 66°F. 4 pm more cumuli SW-N  
4:36 pm cumuli larger, more descite - ~~form~~

19 Sept. clear 8:20 = 55°F, a bit hazy. 11:18 am 1  
monarch to S over W elm (75' +). 1:55 pm

" to SE over house: 69°F. 2:47 pm 1 monarch  
low to oak to SE.

20 Sept 62°F at 9:20 am clear. 9:44 am 1 monarch  
to N over elms across St. 11:57 am 1 "

to N below level of elm tops. noon - 1 "

to S high = 76°F. 12:02 1 monarch to SE over  
house. back at 2:56 pm 81°F 1 monarch to E

over house HOT DAY 3:20 1 monarch over house  
to NE. 4:05 pm 98°F in sun - 1 monarch SE over

house. 6:52 sun just above horizon = 69°F. clear

21 Sept clear here scattered chunks of fog to



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21 Sept, del Norte St, Berkeley, Alameda Co, CA  
W, N & over hills = 59°F 8:51 (60°F) 1  
Monarch over elm to N. 9:26 am 1  
Monarch to same cab. 10:14 1 Monarch  
to S. 30' up over the street 11:35 am 1  
circling high to W - 100' + over elms  
1:50 pm = 66°F heavy breeze hazy & few  
small ~~few~~ chunks of fog to N. 3 pm 1 Mon.  
to E over house 3:41 clear light breeze =  
82°F. 7 pm = 65°F cumulus - cirrus & general  
haze. a low P. area to S. is sending up  
thunder, hail & sprinkles. clear to W.  
22 Sept = officially FALL variable cumulus  
clouds, dew at 7 am. 9 am = 61°F 9:17 a  
small flight from W = ? 3 robins & 5 wax-  
wings? 9:18 = 63°F 1 Monarch to SE over  
house 10:02 am a large, beautiful pelaged  
Fox sp. with large descending scutulum into  
feather seeds. almost a general overcast  
of clouds = 67°F. 11:41 sun now out, broken  
overcast. 1 Monarch to SE 20' over house  
sailing on horizontal wings. 11:45 filled  
up D-4 feeder to even to top of top of upper  
perch-metal - so 2/3 full. 12:28 sun = 69°F  
1 Monarch over house to E lawn. 4:18 pm  
heavier overcast coming in. 1 Monarch NE; another 1  
to SE over house - 72°F, 4:36 1 Monarch to S  
just at top of cab, lazy flight. = 74°F in sun. &  
more cumulus, same build up, darker bottoms.  
6:50 pm = 65°F multilayered cumulus.  
\* about 11 pm a light rain started & con-  
tinued for about 1 hr. = .20" RAIN  
23 Sept 7 am vertically clear; 9 am = 64°F lots of  
high cirrus, haze & small clumpy cumulus.  
24 Sept scattered, misc. clouds & fog. 8:44 am = 61°F.  
9:48 am = 62°F 1 Monarch glided to a rest on



Christman  
1990

Journal.

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24 Sept, del Norte St, Berkeley, Alameda Co, CA  
horizontal branch of cedar 55' above  
ground; in sun. 9:55 it flew S. 11:16 pm  
1 Monarch 25' over house to SE = 65°F.  
11:31 another - at my level to S, then to  
N by the Pittos. Noon pretty clear  
except small patches of fog to N. in part  
of me. 12:16 1 monarch over house to SE.  
12:33 1 Monarch over house to SE, 12:55 1  
monarch low to SE. 1:37 1 Monarch  
over house to W! 4:11 1 Monarch low, W  
of oak to SE. A few cumulus & bits of fog. 82°F  
4:22 pm 1 Monarch to SE oak height.  
Minimal bird activity to say, except H.F. in  
a.m. only 2 tanagers, chickadees a few doves.  
after noon - zip!

25 Sept. Fog & variable clouds, 61°F. 10:35 am  
first monarch from SE over house  
down & W = 62°F sun out now. 10:49 2  
or 3 more; to NW, S, & SE. And seeing  
same 1 twice? 11:15 am 1 low SE over  
the oak. 11:17 another, monarch over W side  
to SE. 11:41 1 monarch on oak branch  
N side, 30' up. 11:42 flew over house to E. 3:55  
pm 75°F scattered variable clouds 80% cover  
long sharp shadows. 7:02 pm almost  
clear - 1 clump/cumuli - W = 61°F. quite <sup>sun</sup> down.  
26 Sept scattered fog & cumuli, 50% ± cover  
3:34 am = 59°F. 11:13 = 63°F first monarch of  
am to E over house 11:26 am essentially  
clear - 1 big cumulus WNW - cooler today. 11:41  
= 65°F 1 Monarch E over house. 2:08 pm = 70°F  
until before this noon - this week - now  
bright clear; few cirrus far to W & incipient  
thunder heads over all hills in bay area.  
almost calm. 2:21 pm 1 Monarch SE 30' over <sup>oak</sup>



Christman  
1990

# Journal

177

26 Sept., ad route st, Berkeley, Alameda Co., Calif.  
3:59 pm = 87°F in sun. 1 monarch over house  
to E. Is this year going to be a drought?

27 Sept heavy but scattered fog. 10:22  
62°F 1 monarch to SE over house.  
12:43 pm a few cirrus have gone over. also,  
down Salano Ave. 1 monarch to S at  
20' above street. Much variation in  
migration height.

28 Sept Fog, by 8:50 am (= 61°F) no breaks  
in it. 9:16 am a few small holes in fog (= 62°F)  
= first monarch to SE over elms. 10 am =  
clear, back of fog to W. = 63°F. 4:30 pm  
low fog to W & N. 6:30 pm complete fog = 59°F

29 Sept clear, then quickly at 7:30 am low thin  
fog = 9:03 - 58°F. 10:11 am foggy sun & 60°F  
- first monarch seen with me (level)  
from SE & down to NW! 10:14 1 monarch  
from NW to SE over house (same one?).  
10 - I refilled the D-4 which got down  
to nothing yesterday - now 1" above  
top perch bracket. Within 10 minutes the  
nuthatches arrived then H. finches &  
then chickadees! 10:19 1 monarch eye  
level to SE. 11:36 am 1 coasting hi to Lo-SW.  
1 pm another monarch low to SE. 4:47  
1 monarch up over house to SE. 6 pm  
fog coming in & low - 1/2 height of elms 59°F

30 Sept Fog, clearing 9; 10:47 am 64°F 10:52 1  
monarch flying about S side of NW elm.  
6 pm fog in low; 6:35 pm = 60°F. no activity

1 Oct 8:30 am = 57°F, Fog 10:46 am still fog  
59°F 1 monarch in ashleaves over top of  
NW elm, etc.

4 Oct back in town 3 pm, fog coming in wind 87°F

5 Oct. Fog, at 9 am = 60°F



Christman  
1990

Journal

178

5 Oct, ~~del Norte St. Berkeley, Alameda Co. calif.~~

1 pm fog gone, miss cirrus about 640F

4 pm fog back in - solid, but bright

6 Oct clear, 54°F at 9 am 9:40 am 1

Monarch 60' up to N, next to NW elm -

one earlier = 55°F. 10:07 1 Monarch

to N high; another 5 minutes ago = 57°F

in shade. 11 am = 59°F filmy whisks of

cirrus going thru in huge banners N to S

11:49 Fox sq. eating a squashed dumb

of a peach & put out 2 weeks ago -

naw very dried. 12:46 pm 1 monarch to S

high - over aab. 2:23 pm = 68°F 1 Monarch

E over house. 2:26 another about NW elm.

3:18 1 flying fast over the house. 3:38 pm 1 over

house. 4:20 1 high over house, another = 85°F

8 Oct clear, 9:24 am = 61°F. 10:13 am = 65°F <sup>in sun</sup>

and first Monarch - over house.

11:09 1 Monarch over house to E = 69°F

11:10 am 1 E to W a breeze! 12:42 pm = 74°F

1 Monarch over house to W.

9 Oct clear; 8:15 pm = 53°F. 8:34 = 54°F

first monarch to N over house. 9:07 am 1

Monarch E over house from law. 9:27 1 Monarch

over house to E. 9:46 am 1 to E over house

9:56 1 Monarch law from NW. to E. 10:28

1 Monarch over house to N. = 65°F 10:30

another monarch to N. 10:31 another to N. 10:33

another N. why are they going N? Then 1 to E.

10:35 1 high to NE. 10:39 2 to SE. 10:41 - 1 to SE

10:42 1 to E over house 11 am = 66°F 1 law to N.

11:09 1 to N; 1 to E. 11:13 1 to NW law. 11:14

1 SE over house; another. 11:16 1. Vicarog

fast flies, landed on oak good leaf. 11:17

1 to E, 11:18 1 to NE; 1 high to E, 11:36 1 to S high

68°F. 6:49 after sundown 70°F. a hot day



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1990

Journal

179

10 Oct., del Norte St., Berkeley, Alameda Co., Calif.  
crickets have been calling, but land last  
night. 8:14 am (dub at 7 am) : 53°F clear.  
9:10 in sun to W first monarch (temp in shade  
is 59°F) to S. 9:15 another S (3/4 elms height)  
10:28 = 66° 1 to E. over house. 10:31 - 1 to E  
over house. 10:39 1 monarch low to S. 10:47 1  
to N below tree height. 11:17 1 to SE over house.  
11:20 am 1 N to S - seen with window little  
bird activity - watching an excavating  
garage next door - noise. Yesterday I  
found a tail feather of a Cooper hawk  
amongst ivy in front yard! 3:30 = 78°F

11 Oct clear, 8:19 = 50°F saw an everything  
8:56 am bright sun on elms - first monarch  
to N. I wasn't up here that much today, but  
little bird activity. 6:15 sun about to go down  
= 69°F clear, but for some horizontal clouds  
(?) to W. a fire? very quiet except for traffic.

12 Oct 9 am clear, 55°F first monarch E over  
house. 9:42 1 flying about oak. 10:04 2 monarchs  
in front. 10:08 1 " to SE over house. 10:33 1 "  
to N over house. 10:45 am 1 monarch to N over  
elms. 12:40 = 69°F in shade. 12:52 1 monarch  
to S low (at about noon, flying under oak)  
1 pm 1 gliding over oak, then up until disapp-  
eared! no beating of wings. 1:55 1 to N  
low. 2 pm = 74°F. 2:03 1 high over elms to N.  
3:43 pm in sun 90°F.

13 Oct 8:48 am = 54°F clear except for some  
brassy fog around the edges. 9:00 55°F  
first monarch to S. 10:56 1 monarch S over  
house. 10:58 another M. over house to E. 11:27 1  
M. high to S, then another. 11:32 1 high over  
elms to SW. 1:07 1 M. high to S over elms - 2:11.  
1 over house to N, fast! = 65°F clear <sup>since</sup> 9



Christman  
1990

Journal

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13 Oct., del Norte St., Berkeley, Alameda Co., Cal  
2:23 pm / high over clouds to S. 2:58 / high  
over house to S.

14 Oct. 9:28 am = 57°F 4 pm = 81°F in sun.

15 Oct 8:17 am = 52°F cool winter feel  
to it. Clear 9:27 am = 54°. " first real  
fall day in a sense of cold interior air.  
10:15 am 58°F first Mandarin over  
house to W. 10:21 - 1 M. from N, alighted  
in top of the oak in the sun. 10:38 1 M. to NE  
11 am 1 M. to S; = 60°F & some cirrus  
off. to far S. 11:35 1 M. to E. 11:50 saw  
some isolated cirrus to S to N almost  
overhead. 11:51 - 1 M. to S. 12:54 pm = 65°F, 1 M. to S  
3 pm = 67°F more high long cirrus from N.

16 Oct. clear, except a few clouds to S & few  
bits of fog. 8:52 am = 54°F. 9:39 (= 57°F)  
first Mandarin over oak to SW. 9:51  
- 1 M. to SE over oak. 10 am 1 sailing to NW  
over house. 3:06 pm = 73°F (have been  
away since 10:30 ± am) now 1 M. to W over  
house.

17 Oct 8:19 am 48°F Clear - cooler at 6:30 am  
9:46 am 57°F Sweep up all the junk on the  
landing - a lot of shelled large sunflower  
seed shells! who is shelling these large  
seeds - feeders at D-4 throw them out  
about 10 first Mandarin to S. 10:16 another to  
S. = 59°F bright sun to entire view except  
shadow of house. 12:35 1 M. to SW gliding. 1:11  
pm = 68°F 1 M. to SE over house, strong fast.  
\* 70x90 ? increase of cirrus from S -

18 Oct. 8:26 am = 53°F complete cloud  
cover a few drops of rain. 8:31 very light  
sprinkle. noon = 61°F Variable clouds, with bright  
sun, bright overcast to shadows & patches of blue



Christmas  
1990

Journal

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18 Oct., del Norte St., Berkeley, Alameda Co CA  
no monarchs so far today! 12:40  
sun out - 62°F first W. to E. 12:46 1 W.  
fast overcast to SE. 4 am dull light  
with dull overcast.

19 Oct very light rain last night (.18")  
dew dripping & puddles on landing  
7 am = 51°F varying amounts of fog (?)  
from NW & bands of fog over upper  
hills to E. 9 = 52°F bright sun. 6:25 pm  
sun just down = 59°F clear all day, little wind.

20 Oct. clear, calm 9:15 am = 53°F. 10:10 am  
57°F in shade - first monarch to SE.  
4:48 pm = 70°F in sun, have been quiescent

21 Oct 10 am = 57°F, clear, calm. Nice day

22 Oct 9:50 am = 59°F clear, calm with  
bands of high clouds far to SE-SW.  
11:11 am = 63°F 1 monarch to S past window -  
fast.

24 Oct 8:45 am 52°F clear, calm. 10:25 am  
= 60°F first W. to S.

25 Oct rare low fog - down to the oak  
-; fog lifted by 10 am then long filmy,  
feathery cirrus over entire sky 10:45 =  
57°F sunny. 10:45 am first monarch to S  
- high overcast = still 57°F. 4:14 = 70°F in sun  
all day 50± sky in huge feathery cirrus/bright sun

26 Oct. 7 am = 49°F low fog, dark. 8:15 am =  
same almost clear - blue sky - cool.  
9:44 am 53°F; fog back in very dull sun -  
variable fog! 12:30 pm = 62°F rather hazy  
- clear, still wet in shade.

27 Oct. 7:30 = 46°F clear, "rosy fingers of  
dawn" on cumuli to W-N. Then 8-8:45  
am patchy low fog = 48°F. 1 pm 59°F in  
shade; first monarch about dusk



Antiswan  
1990

Journal

182

27 Oct, dd Route 21, Berkeley, Alameda Co, Cal  
2:38 pm 63° in shade. 2 Mandarins  
flying together over oak, E. over house.  
6:24 after dark 56° - 20% cumulus from W  
calm quiet. Joe will permit fruit landing.

28 Oct. STANDARD TIME 8 - 54°F; a few  
cumulus to W-N & also whiffs of fog to W.  
Variable cumulus from SW all day, periods  
of patchy fog also 4:15 = 65°F.

29 Oct. clear, some fog over hills in patches.  
8:20 am = 51°F. 11 am = 59°F first Mandarins  
to N., low.

30 Oct 50°F at 7 am; clear with a few cumuli  
then fog came in 8:15 = 55°F complete over-  
cast. 10:42 a bit windy; 61°F now bright  
sun intermittently with small well defined  
cumulus clouds. a few high cirrus

3:09 huge bands of cirrus/cumulus S to S  
off to W. 4 pm a Fox Sq. has been going from  
oak to line to Pittos. with acorn in mouth.

4:21 still cumuli S to N to W moderate sky,  
darker to horizon to W. periodic sun.

4:30 now 2 Fox Sq. working oak - 1 top, other  
NE low - 20' apart eating it appears no  
scumming to live, etc.

31 Oct about 2 am last night a light rain  
started - moderate rain\* at 7 am = 55°F,  
stopped by 8 am. overcast with few holes.

12 pm bright blue sky with cumulus c. = 60°F

1:11 pm windy, bright, virtually cloudless, 61°F  
& first Mandarins. \* at 8:15 am = .30" rain

1 NOV sparklingly clear & crisp - typical  
after a storm comes thru 11 am = 54°F

4 Nov clear 9:15 am 55°F to PA at 11 am

5 Nov Fog till 9:30 am in PA. None at 2 pm clear  
except few high cirrus N-S going E 80°F in sun



Christman  
1990

Journal

193

6 Nov. del Norte St. Berkeley, Alameda Co. CA  
all day - breezy, cool, clear

7 Nov. calm, cool, clear (band of cirrus  
to S) at 10:30 am - 56°F.

8 Nov. clear, cool (11:15 am 64°F) calm  
with thin hazy cirrus. The landing  
is still unfinished - anyway very  
little bird activity. 2:45 pm 86° in  
sun. du P.M. Joe M. painted AL on landing

9 Nov. clear, calm; 8:30 am = 54°F.

11:17 am aluminum paint still wet in  
spots. Will put on another layer.

No mammals last several days. 12:15  
67°F. These have been quiet days

10 Nov. calm, cool, clear; 9:45 am = 57°F  
about 3 pm Joe Mische put the last coat  
of AL on landing - at 4 pm 3 doves  
in - no feed. so I put same out. 4:46  
a towhee then doves came in! The "vee"  
doesn't bother when hungry.

11 Nov. 7:30 - 9:30 huge bands of cirrus  
SW to NE. 10:10 am clear, 63°F. early-  
doves, bent leg J & towhees on ledge &  
landing & feeding. 3 pm for several hrs.  
great bands of cirrus S to N - 80% cloud  
cover, no sun, = 71°F. fillup D-G feeder  
first time in several weeks

12 Nov. clear with a few thin cirrus SW  
to NW, calm, 9 am 59°F. 3:22 pm = 91°F in  
sun; clear calm, band of cirrus to W (N-S)

13 Nov. scattered cirrus, variable sun. 9:08  
am = 53°F. 10:09 am a Fox Sq. feed out of  
NW elm & hit ss with decernable "smack"  
(feet 40'+) got up & ran to trunk - hit asphalt  
near Fox Sq. from oak to line to Pittos. no goon.  
The winter pattern has pretty much <sup>been</sup> established



Christman  
1990

Journal

184

13 Nov. del Norte St., Berkeley, Alameda Co. CA  
3 pm mixture of cloud sorts, but some  
are thicker. 4:31 pm more clouds including  
lower cumulus types. also 2 Fox Sq.  
running down 6" branches of NW elm  
60' up.

14 Nov Last night a very light sprinkle  
not wetting back patios but puddles  
on landing. 8:58 am = 52°F overcast.  
calm. 9:10 am light sprinkle. 9:28 new  
light rain, 51°F. The light rain stopped  
about 11:30; 12:42 still overcast, tho a few  
thin patches of blue far off to W. no sun.  
The bird activity specially high for Plain  
tit, mouse, chickadees & Townsend  
warbler! during rain & after. 2:02 pm  
Fox Sq. from oak to Pittos with acorn -  
also at this time 2 others to perch =  
1 a small dark aggressive! and a lighter  
smaller one with very shaggy pelage.  
how many are - there? at least 3.  
2:40 new 90% broken cloud cover - low  
cumulus from N; higher cumulus from S!  
No sun.

15 Nov clear, cool, calm 11:20 am 55°F  
little bird activity, no doves.

16 Nov overall cloud cover of high thin  
cirrus & many other lower types. 8:50 = 56°F  
a variable wind; from N! 9:13 big Fox Sq  
from oak to Pittos with acorn. 3:00 lower-  
ing overcast. = 60°F.

17 Nov. hazy clear, calm 9 am = 49°F. 11:39  
same; 58°F; band of cirrus, etc. to W. 12:30 =  
59°F in shade; the ~~low~~ bands of clouds appra-  
ching from W, a few feathery cirrus almost overhead.  
1:30 thin cirrus now overhead, shadows getting soft.



Christman  
1990

Journal

185

17 Nov., Lelivade St., Berkeley, Alameda Co., Cal.  
3:23 huge sweeps of cirrus, N-S, diffuse  
sun.

18 Nov. fog to noon  $\pm$  scattered clouds; 90%  
clear at 4:30 pm = 57°F.

19 Nov. 10 am = 55°F fog, cirrus & cumulus  
~~clouds~~ cover almost clear to complete cover.  
Noon - now cloud cover cumulo-minimus.

2:23 pm raining! doves, towhees, J & finches  
are feeding. Stopped light rain at 3 pm a few  
holes in clouds to W.

20 Nov variable clouds 9 am = 47°F, dull  
sun. 9:30 am = 49°F now almost calm & the  
overcast is thicker & darker. 2:50 pm 90%  
high wavy cover, calm & 59°F, sun out.  
50  $\pm$  % clear, streamers of clouds from NW  
54°F at 4:07 pm

21 Nov. 8:16 am = 49°F overcast, light rain  
from  $\pm$  4-6 am. calm. Rainfall = .12".  
noon - few small breaks but  
essentially closed cover, etc. 1 P.M.  
clearing with  $\frac{1}{3}$ - $\frac{1}{2}$  fuzzy ill formed cumulus.  
4:18 pm clear = 57°F. slanting ray of sun.

23 Nov. back in town from P.A. at 11:20  
am. 1 pm = 63°F in shade. Clear, but for  
- 1000 cirrus & few high cumulus. calm  
 $\frac{1}{2}$  mi S of house = 1 Monarch to N -  
this is first in weeks! 2:45 pm = 82°F  
in sun. clouds - mainly cirrus large  
20% cover.

24 Nov 9:07 am = 47°F clear & calm, 3:08  
in sun = 78°F.

25 Nov overcast at 7:30 am; light drizzle at 9:45  
& light rain by 10:15 & "fog" closing in = 52°F.  
Rain increase with wind about 2 pm, 2:45 pm = 53°F  
good rain now. 4:31 = 48°F. Rainfall = .32"



Christman  
1990

Journal

186

25 Nov del Norte St, Berkeley, Alameda Co., Calif.  
break in clouds & streaks of blue to W.

26 Nov clear, calm, cool 8:48 am = 41°F. 12:36  
pm clear, occasional gusts of wind, = 52°F  
4:17 in sun = 55°F clear

27 Nov clear, calm 10:37 am = 47°F (42° at 7:45)

28 Nov clear, brisk E wind, haze far to W  
8:43 am = 46°F. 9:20 now the haze to W is  
approaching as cirrus & now rather  
calm. 10:20 almost all W. sector now  
overcast - thin. Notably any bird activity  
so far today. 12:18 now more discrete  
feathery cirrus & 53°F. 4:55 hazy overcast.

29 Nov. variable cirrus/cumulus, calm  
hazy sun 10:45 am = 50°F. (46°F at 9 a.m.)

30 Nov hazy clear, 8:51 am = 45°F. clear <sup>all</sup> day

1 Dec 10:20 am = 50°F clear, calm, earlier  
a band of small cirrus to S. (1/4 thin cover).  
no bird activity. Sunny, at 3:30 pm 74°F  
in sun, high 50's in back yard, etc.

2 Dec clear at 8 am. At 9:21 a few whips of  
cirrus, 45°F calm

3 Dec hazy overcast 8:50 am = 46°F calm.

11 am very hazy sun, soft shadows - first of a.m.  
but heavier overcast to W. 3:55 pm = 53°F  
patchy overcast, no sun, some wind layers of  
different clouds. 4:17 no sun huge whirling <sup>circles</sup>

4 Dec hazy clear at 8:59 am = 43°F calm.

10:47 = 48°F much hazier, no blue now with  
diffuse shadows. 12:52 pm hazy bright sun  
but still 80% thin high cirrus. 4:36 pm = 50°F  
high cirrus & rather rolling type cumulus -

5 Dec 8:35 = 43°F hazy clear

6 Dec clear, occasional gusts of wind 50°F at 8:30 &  
10:29 = 54°F. 1:00 pm = 58°F 1 Monarch to N  
in fast strong flight.



Wristman  
1990

Journal

187

Dec. 7, del Norte St., Berkeley, Alameda Co., Calif.  
clear but bands of clouds to W & N, 8:35 - 44°F  
10:35 am narrow band of high cumulus bands  
from W almost overhead ragged edge  
diffuse shadows = 54°F.

9 Dec. hazy clear all day with variable  
clouds W-N. at 4:27 = 59°F heavier clouds to W.

10 Dec light rain 5-6 am. 9:20 am = 53°F with  
cloud cover; streets wet. 11:50 very light  
rain starting again. 1:18 pm now a low fog.  
light rain drizzle. = 51°F. Since 2:30 it  
has developed into a moderate soaking  
rain at 48°F. at 4:45 pm it had rained  
.48". continued light into early a.m.

11 Dec clouds - fog no rain at 8:35 = 47°F  
& since yesterday. 4:45 rain = .30".

10:29 am first sun but still clouded in here  
11:44 am ill-formed cumulus going S  
with some blue & indistinct shadows.  
2 pm clearing up with tall cumuli behind  
ingave hills 3 pm in sun - 69°F.

12 Dec. clear, at 9:30 am = 46°F bands of clouds  
to W (S-N). noon = 51°F few feathery  
cirrus overhead more to W.

13 Dec clear cold, 50° at 12:30 (43°F about 9:30)  
little bird activity

14 Dec clear & cold - 36°F at 8:18 am. at 7:30  
faint on roofs, etc. 8:40 long wispy cirrus to  
W & a towering cumulus in Marin Co. 10:57 am  
now a discrete band of clouds to W from  
S to N = 44°F. no bird activity - The high  
cirro-nimbus 60° overhead to W. Towering  
clouds in N. Marin Co. twice as high now  
against white pale arc circle. 4:18 fairly clear  
- 60% thick W. little ones to N. near sunset.  
Light rain started about 12:30 am



Christmas  
1990

Journal

1988

15 Dec, ~~del Norte St, Berkeley, Alameda Co, CA~~  
— rain off & on until about 8:30 am.

9:53 = 43°F broken clouds. 11 am very  
light sprinkles low clouds = 44°F.

11:30 am rainfall = .69" (since yesterday)

12:23 pm sun out & blue off to W. 2:21 pm  
a little sun, a few showers & a bit of blue  
among the clouds hurrying N. 5:13 almost  
dark heavy clouds W & N. = 41°F. Rain at 7:30 pm.

16 Dec. rain until perhaps midnight. A.M.  
clear, cold (8:15 was 39°F) calm. 10:13 = 44°F  
Rainfall = .46". Clear all day

17 Dec 37°F at 7 am clear - 10:am = 45°F  
clear all day. 3:44 = 66°F in sun

18 Dec low fog until 9 am = 40°F. Thin  
cirrus overhead & W - W. 12:30 pm  
= 51°F with small fluffy cumulus clouds  
to NW going to SE. 3:30 now fewer cumulus  
occasional gusts of wind & cirrus from SW.

19 Dec shower during night. Scattered  
clouds in am. from 50% 75% cover  
with dark cumulus clouds 9:17 = 41°F  
10 am = 41°F strong gusts of wind, general  
gray overcast. Believe wind has shifted  
from W to NW. 3 pm 44°F misc. cumulus  
from NW bright sun & a few cold drops!  
4:52 after sunset, clear, 38°F.

20 Dec 7 am = 31°F clear calm; ice on  
rain puddle on landing. 10:28 = 35°F  
still ice - even in the sun. 1:43 pm bright  
sun, 40°F in sun, a few cumulus W & S. 3:45  
bright sun, gusty winds = 47°F (winds from N)

21 Dec clear COLD. 23°F at 8 am; 11:48 is 32°F ice  
in rain water puddles on landing. No wind  
little bird activity



Christman  
1990

Journal

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21 Dec. del Norte St., Berkeley, Alameda Co CA  
Noon - cold weather: few birds have  
been about. I took jay to ledge over  
1 chickadee high in elms in bright sun  
& into D-4 feed. No H. finches or nuthatches  
yet. 1 dove in NW elm! No birds on high  
perches. Freezing at noon! 1:11 pm saw  
several house finches, jay again - no doves  
about. = 36°F.

22 Dec. clear, calm & cold 20°F at 9:30 am  
32°F at 1 pm. Outside in sun = 50°F at 3:28  
but still ice. 7:28 pm = 28°F

23 Dec clear 25° at 8 am & 29°F at 9:35 am with  
gusty NE winds. 4:26 pm bright sun, etc.  
gusts of wind - 35°F.

24 Dec 32° at 9:30 clear calm, slight E wind  
a bit warmer today - 43°F outside at 1 pm.  
The temperatures in kitchen patio 5-10°  
warmer than outside up stairs. Jade  
plants & many other outside plants were  
burned pretty badly by the frost.

26 Dec. home from Palo Alto 12:15 pm clear  
cold 65°F at 3 pm in sun. house cold, clouds

27 Dec clear cool calm all day but a few to W.

28 Dec clear except for a few small cumulus  
from NW at 10 am = 43°F, 3:58 pm = 57°F

clear, only occasional cumuli to W.

29 Dec clear, 37°F at 9:40 am calm. This  
period of record cold has killed back  
exotic plants to as yet an unknown  
extent. On top of a 4 yr. drought  
the natural ecosystems have been hurt  
probably, but in the artificial urban/  
suburban areas could be severely  
set back. The local bird populations



Christman  
1990-91

Journal

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29 Dec., ~~dd Route 51, Berkeley, Alameda Co., Calif.~~  
have been affected by the drought. The  
cold weather will not be ~~un~~ ~~interesting~~  
for awhile 1:22 pm = 48°F occasional gusts  
of wind, still clear, bright sun.

30 Dec clear, cold 46°F at 1:27 pm.

31 Dec same; 9:54 am = 40°F hazy on edges,  
breezy last night. For 1 hr. to 10:40 am only  
bird activity was 1 dove on line at circle!  
The high barometric pressure reduces  
"bird activity". 12:49 pm = 51°F same; haze  
very light, now. 3:30 pm sunny 64°F outside.  
More birds now H. finches, chickadees, 1 Kinglet  
7+ doves.

1 Jan 91 a few high feathery cirrus to W & N,  
to S (E to W) an overcast of high cirrus  
at 10 am = 39°F, first clouds in, like 2 weeks.  
10:58 am There is much more bird activity  
this a.m. than yesterday & other a.m. lately  
3:38 pm = 59°F in sun variable cirrus all day.

2 Jan variable levels of high, etc cirrus  
from S. 9:30 = 40°F, 11 a.m. = 47°F. 12:24 dull  
sun, hazy cirrus, diffuse shadows & 52°F.  
2:53 pm sun out but almost complete overcast  
to W (N to S). 3:22 overcast, no sun - 6  
gulls flew W to E rather, lower - gulls -  
in fact, more in last week. 4:18 = 50°F <sup>overcast</sup> outside.

3 Jan overcast, 8:46 am = 45°F calm.

4 pm = still overcast, now higher & layered, = 50°F

4 Jan clear, 9:30 am = 42°F calm hours  
of clouds far to W. Upon = 49°F outside, also  
saw in top of W sky what may have been  
a goldfinch - didn't see bill, upright, not  
a warbler type. 3:30 = 61°F in sun, now hazy with  
very high, thin billowy cirrus. Fog hazy during night.



Christman  
1991

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5 Jan., del Norte St., Berkeley, Alameda Co., Cal  
9:42: 39°F hazy clear, fog to W. 2:33 pm  
= 52°F in sun. bright hazy sun with  
more definite feathery cirrus from SW,  
slight breeze.

6 Jan. hazy fog - clouds 9 am = 40°F 9:55  
am dull sun out. 3:40 = 53°F sun out  
thin clouds overhead same blue & bands of  
cirrus S-N to the W. 3:58 pm now overcast  
completely. a Fox Sq. went into a nest in top  
of oak on S. side.

7 Jan. light rain in morning to 7:30 +. 50°F  
at 10:25 am. Noon (.13") of rain <sup>all pm</sup> overcast.

8 Jan 45°F at 9:30 am windy with scattered  
clouds. 11:30 dull overcast - thin (few  
dull blue holes) = 51°F. For an hr & a half  
no one in the oak. Overcast but no bird  
activity. 2:29 ± 50% clear = 52°F.

9 Jan rain after mid-night. light. almost  
clear at 9 am. 10:02 few cumulus & low  
fog over hills. 50% blue. = 47°F. 10:16 pm  
now fog & occasional breezes. Rainfall last  
night (.34") at noon. 3:07 overcast (? fog)  
& 52°F no breeze.

10 Jan clear except for low hazy fog to W  
at 9:23 am = 44°F 12:13 pm = 51°F wisps of  
high disorganized fog off & on all am. 2:26 pm  
variable thin cumulus to S = 57°F. 2:45 again  
bright sun - nearly clear.

11 Jan. Fog opened up about 10 am & now  
scattered cirrus & few cumulus 10:15 = 49°F  
11:30 am overcast has closed in, no sun, no blue.  
no bird activity. 2 pm overcast - several  
planes over low which means S wind. Many  
of the exposed leaves of Pittos are dead.



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Journal

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11 Jan., del Norte St., Berkeley, Alameda Co., CA  
4:19 no dunes, 1 robin in w elm, chickadee  
a towhee. a storm is approaching.

12 Jan Fog. a trace of rain last night  
— enough to wet street, car & leaves.  
9:10 = 50°F. 10:49 am fog lower, mirky  
= 53°F 4:27 pm = 56°F opening up 1/3 blue  
not high & fog. calm.

13 Jan Sunday up to 9:15 heavy low fog — could  
hardly see utility pole around then cleared  
80% then fog again & spotty fog to late  
afternoon (4:04 = 63°F in bright sun) with  
filing cirrus & small cumulus.

14 Jan Fog; at 10:23 = 53°F bright, showers  
seen now, no blue. 10:47 most of fog cleared  
except to W. High cirrus S to N. little bird  
activity. 1:45 pm = 57°F basically clear with  
small clumps of fog — no dunes or pigeons,  
H.F. or J's. 2:14 pm = clear, calm = high pressure  
system?

15 Jan. Low thick fog until 8:30 am +; still  
present, the high at 10:16 = 52°F. 10:22  
first sun — heavy diffuse showers. 11:24 am  
broken fog — sun, variable, 40-60%. 1:36 pm  
still clumps of fog & a few cirrus. = 59°F.

16 Jan clear! at 8:30 am = 49°F calm. 11:11  
am = 55°F clear — calm. 12:40 = 62°F a few very  
thin wispy cirrus N to S, gentle breeze.

17 Jan clear, E wind 9 am = 55°F 2:45 = 69°F  
in sun, bright calm.

18 Jan clear 10:39 am = 51°F 1:09 pm = 55°F  
now cirrus to W (S to N) 1:16 suddenly fog  
from the S.

19 Clear, out at 7:59 am 10:22 = 50°F.  
20 in Palo Alto clear a few E breezes



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1991

# Journal

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21 Jan, El Monte St, Berkeley, Alameda Co, CA  
clear, lots of wind last night. 9:30 a.m.  
= 51°F. 10:22 a.m. light breeze, high strong  
pressure - none: several laves in elms;  
my chickadees, H. finches at tan-hills.  
very little activity.

22 Jan clear 9 a.m. = 42°F 10:18 a.m. Fox Sq.  
in top 5' of W elm eating elm buds.

2:27 p.m. = 57°F few high feathery cirrus to N  
3:40 = 68°F more cirrus.

23 Jan clear, 8:36 = 39°F Fox Sq high in  
up 25. elm feeding on buds. 11 a.m. have  
been watching since 8:30 little activity  
no one to feeders! Laves (4) in NW elm,  
few robins & waxwings & 1 hawk & 1 pigeon  
calm & clear. No one in oak yet.

1:14 = 57°F 1:44 1 kinglet in oak - first  
bird seen in oak today. where are the  
warblers. 2:30 filing haze off to W  
3:09 = 70°F in sun. 4:22 = 59°F more  
hands of high cirrus to W.

24 Jan 7 a.m. = 41°F clear with fog bands to W.

11:19 clear a bit hazy = 51°F. 2:21 = 55°F getting  
hazy, tho still bright 5:25 dusk, haze no activity.

25 Jan FOG (some clearing at 9:30) 11 a.m. = 48°F  
hazy clear all day

26 Jan 38°F at 8 a.m. clear; 9:30 dull small  
cirrus & cumulus SW to NW. Sunny. = 43°F  
Rather clear most of day, cool = 4:53 = 50°F with  
a huge raft of feathery cirrus to SW.

27 Jan dense fog with few holes. 9:55 = 45°F  
hazy sun. 2:52 Fox Sq. way out at end of a  
vertical limb of elm across St. eating buds - still  
lots of fog & 53°F outside in sun.

28 Jan scattered fog, 8:42 = 45°F, 9-1/2 blue



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28 Jan., del Norte St, Berkeley, Alameda Co., Cal  
11:53 almost clear, = 50°F.

29 Jan 7:30 = 33°F frost & dew about  
edges, 8:36 = 38°F. Clear (at 7 hunk of fog  
to W narrow gone). 9:22 calm, = 43°F. 1:33 = 54°F  
calm. 4:30 = 59°F in sun clear calm.

30 Jan clear with some high cirrus, at  
8:20 = 37°F - some frost about roofs &  
shady lawns. 2 Fox Sq. in ivy on top of  
utility pole across the st. They were there  
yesterday - at least 1 jumped to lower  
branches of W elm to & from pole. Very  
little bird activity NO towhees, finches,  
chickadees or bush-tits yet. no jays  
12:45 hazy sun. more thin cirrus. 1:08 it  
is back in cypress. I was out - drove  
past the circular "island" at the circle  
There is a 3' high pyracantha - so  
perhaps a robin was at the berries?  
1:14 - still there. 1:15 it's gone. still hunting  
in an urban-residential area. 2pm = 58°F  
(not in sun) No birds about - did that  
red-tail have that much effect? Or is the  
high pressure making E. ? 3:22 has become  
a dull high overcast - still 58°F 3:45 ± 1 jumped  
to "ivy-pole" across st. from NW elm. Another in  
NW elm & 1 in W elm - so 3.

31 Jan cloudy overcast, calm 40°F at 7:30  
am. 10 am = 47°F dull overcast. 11:11 = 53°F still  
overcast, but now a dull sun - diffuse shadows  
1:54 = 52°F still overcast. 2:29 1 Fox Sq. in elms &  
another seems to be building a nest in ivy  
on pole across st. carrying leaves to SE side  
of pole, 3' from top. 1 on landing here. 3:22 = 65°F  
in sun; hazy clear to W, clouds N & E, 3:51 Clear!



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1 Feb., Del Norte St., Berkeley, Alameda Co., Cal  
Hazy, scattered clouds - high cirrus 8 am =  
40°F, hazy sun 45°F at 9:40. 9:45 - 5 min.  
apart 2 Fox Sq. left nest at icy pole into  
NW elm. 11 am a bank of high clouds with  
fuzzy edge NW to S. approaching, rest  
hazy blue. 11:04 2 Fox Sq. in feeding; now 3.  
12:45 now no more shadows - thin overcast  
calm. a storm front is coming in - lots  
of birds moving about even F-t. Hawks,  
especially warblers & robins. 1:54 bright  
sun now. 2:05 back to no sun. 3:12 2 Fox Sq  
high in NW elm. 3:23 more layers of clouds 3:49 1  
Fox Sq jumped NW elm to icy pole into nest. Saw  
1 go into nest about 3:30 - early to bed?  
3:58 another jumped over & into nest! (chop) just  
1 left while I was out.

2 Feb a light rain started about 2 am.  
with some wind. Rain stopped about 9 am  
still cloudy. Lots of activity chickadees, funds  
robins in trees, doves & warblers all ahead  
9:53 = 53°F. 10:25 first Fox Sq. off icy pole into elm  
in a landing near. 10:33 second Fox Sq out of  
nest jumped at elm & missed - hit the street  
with a plop & ran across st to trunk of NW  
elm. 10:39 light rain beginning again. 10:41  
harder rain - straight down. 1:32 heavy down  
rain & lighter. 3:08 out awhile - there was a  
road kill Fox Sq 3' from elm trunk! No rain  
now. 3:50 - at 1:30 pm RAINFALL = 1.44". Now  
calm, complete overcast with dark steel blue to  
W & S. quiet except for traffic. 4:07 light rain.  
4:12 overcast decreasing darker - flurry of feeding  
by doves, G-C sparrows & H. finches. The motto of  
survival - go to bed with a full stomach.



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# Journal

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3 Feb, del Norte St, Berkeley, Alameda Co, CA  
overcast, no sun. 10:25 = 59°F. 10:46 am  
dull overcast with some sun. 10:53 some  
breaks in clouds with 25% blue. 12:13 pm  
breaks in clouds, blue & strings of cumulus  
ill-formed. 2 pm - almost clear. 3:27  
pm 72° in sun! a cool day tho.

4 Feb hazy fog, clear overhead calm = 50°F  
at 8:39 am. 9:30 complete dull overcast 51°F,  
9:43 overcast with banks of lower darker  
clouds N-S to W. 9:50 dull sun, diffuse shadows.  
12:30 pm hazy, overcast is lower. 1:28  
pm put 1/2 a box of rock salt under P. tosporeum  
near fence line in front yard (N). if it  
rains to night it should melt in & kill the  
SOB's. 3 pm was getting darker & suddenly  
huge cold wet drops, now general down  
pour!

5 Feb scattered cumulus type clouds - clearing  
at 8:16 = 51°F. RAINFALL = 1.13" 9 am was  
clouds now 11:26 am = 56°F, sunny with lots  
of white fluffy cumuli. 12 pm no sun, almost  
complete cumulus cover, darker, well formed.  
5:30 just about clear, at sundown = 54°F

6 Feb at 8 low dense fog, by 8:30 lifted over-  
head with long strands of cirrus, then  
fog came back 9:37 = 45°F. 10:03 now  
blue & sun, fog to W, cirrus over head.  
12:22 = 53°F hazy sun & fog, more cirrus.

3:49 1 Foxg. in my ar pale, another thin tree  
jumped to top of pole - 1 dead other day -  
a quick replacement, 5:24 = 56°F sundown  
great thin cirrus SE to NW, windy.

7 Feb clear & windy at 7 am 9 am = 53°F few  
cirrus, calm now. The small plum(?) N  
of ranch is, this week, in pink buds & flowers



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1 Feb ~~at Hart St, Berkeley, Alameda Co., Calif~~  
12:25 pm almost no activity so far, no doves  
no tanagers only few robins early.  
2 small waxwing flocks seen. HLG+H

PRESURE The cirrus over head going  
away to general haze to low when near  
3 pm 78°F in sun lots of cirrus, bright sun,  
little haze.

8 Feb 8 a.m. fog lifting, 8:30 opened up some-  
what with 1/2 high cirrus, then shut down  
again in fairly dense low fog - 9:41: 49°F.  
noon: 54°F hazy clear. 5:57: 49°F high fog.

9 Feb 7 fog. 8:52 = 46°F calm. 10:45 fog  
lifting & sun out. 1:10 = 57°F in shade - a  
morning clover butterfly - flew by fast  
then landed in sun on Pittos briefly.  
3:02 pm in sun = 69°F, bit hazy, esp. w, 1 cirrus  
4:09 in sun = 68°F, more haze & cirrus tow.

10 Feb 7 fog, no clearing; 10:19 am = 49°F. 11:49  
am. lightening up a bit - the wagers shadows  
= 57°F. 12:24 hazy clear, cirrus over head &  
haze tow. dull shadows. cumulus clouds  
in after 3:45 pm complete clear by 5 = 56°F.

11 Feb 7:15 fog; 8 a.m. = 48°F fog lifted over  
head, a few cirrus. 10:15 clear with very minor  
cirrus = 52°F ant side. 11 am = 56°F little activity  
2:17 in shade = 61°F bright sun; cirrus far to w.  
3:48 = 67°F in sun, bright, beautiful, but low fog <sup>creeping in</sup>.  
5:54 clear except for extensive cirrus f. w.

12 Feb 7 fog, 8:26 am = 46°F. 9:58 first dull  
sun & soft shadows & patches of blue.  
10:41 hazy blue sky = 53°F 2:40 = 62°F sunny  
- bright but with 50% thin cirrus cover.

13 Feb clear except a few feathery cirrus 8:37 = 49°F.  
11:30 more thin cirrus, sunny = 61°F 2:25 = 72°F in shade



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# Journal

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- 13 Feb, all route st. Berkeley, Alameda Co., Calif.  
sunny, cirrus to W, occasional breeze. 5:37 =  
sun about dawn clear, few clear cirrus = 66°F  
Very little bird activity - 1 robin 1 flicker
- 14 Feb clear except for few cirrus. 8 am 48°F  
2:45 = 74°F almost solid cirrus overhead  
the still sharp shadows.
- 15 Feb Very fog with high clouds 8:42 am - 56°F  
No dew this a.m. 9:45 no shadows yet. 11:24  
overcast duller with very diffuse shadows.  
2:23 dull overcast, but now sunny & good  
shadows = 64°F, 3:26 no sun dull = 60°F
- 16 Feb 9 am = 48°F clear, calm & few cumuli  
to SE over hills. 2:21 = 59°F in shade,  
clear & bright except for few wispy cirrus.  
cirrus moving S = high pressure 3 pm = 64°F  
3:45 = 65°F and now 90% of my view is cirrus  
overcast from N.
- 17 Feb 8:58 am = 49°F clear, few cirrus. calm  
12:21 breezy, cumuli papping up & disapp-  
earing = 57°F. 3 pm sunny = 72°F <sup>cirrus</sup> filmy to W.  
4:20 clear, slight breeze 67°F.
- 18 Feb clear except for few cirrus 8:28 = 48°F  
11 am clear - 65°F. 1:40 a bright beautiful  
warm day: 62°F in shade 3:52 in sun 80°F
- 19 Feb 9:45 am = 57°F clear, calm few cirrus.  
11:26 am bright clear, calm SPRING LIKE = 60°F  
in shade. 3:28 as above = 80°F.
- 20 Feb clear, calm 8:30 am = 50°F. 9:30 am  
now hazy - mainly filmy cirrus. = 54°F.  
12:30 pm = 64°F very hazy. 2:05 = 72°F haze.  
21 Feb overcast, multi layered - 8:51 am = 54°F.  
10:12 dull sun with consistent overcast 2 59°F.  
2:32 = 57°F getting darker, no shadows, overcast now  
a formless gray monotony.



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22 Feb, del Norte St, Berkeley, Alameda Co, CA  
8 am slightly broken cloud cover - cumulus  
= 48°F slow clearing to noon when  
practically clear. 2 pm overcast. breezes,  
59°F in shade.

23 Feb Fog to 9 then hazy clear, glass cirrus  
after 11 am 11:46 = 54°F calm

25 Feb. clear & calm 8:46 = 50°F. a nice  
almost spring day 5:36 = 56°F clear calm  
- breezes from SW earlier. quiet except for traffic.  
5:48 close to sun down - no bird activity.

26 Feb. high fog overcast 8:29 am = 47°F. Bird  
activity dramatically up this am as compared  
to last week or so. More robins & waxwings  
pressure falling - storm due in tomorrow  
pm. 1:02 some holes in fog with bright  
hazy sun. 1:50 fairly clear, bright sun  
hazy & 59°F. 3:45 pm bright sun = 67°F high cirrus.

27 Feb overcast with light sprinkles. 9:11 = 52°F  
1:07 = 53°F light rain. 3:30 pm steady  
gentle rain = 53°F no breeze. 6:31 rain contin-  
ues, = 53°F. More coming. at 5 pm RAINFALL = .30

28 Feb. scattered cumulus cover with oc-  
casional showers & sun. 9:22 = 55°F. RAINFALL  
5 pm yesterd. to 9 am = (1.04) 10:11 becoming more  
a dull monotonous overcast = 59°F. 10:21 am  
bright sun - robin singing loudly. 12:10 = 56°F  
light sprinkles. 1:27 a shower of light rain  
1:46 lighting up. 2:25 dark, 1 thunder clap, light rain  
2:34 heavier rain.

1 Mar. rain during night Rainfall to 9 am = (.45)  
one clap of thunder at 8 am scattered cumuli  
some sun 9:51 = 52°F 10 am variable clouds &  
windy. 10:23 very dark - windy. 10:26 sprinkles. 10:45  
= 51°F heavy rain; suddenly much lighter &



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1 Mar., del Norte St, Berkeley, Alameda Co. CA

12:24 heavy showers. dt passed by 1 P-

3 pm scattered cumuli, windy, same blue.

5:48 hazy cumulus, no rain for 3 hrs = 58°F

Rainfall = (.28) rain light averaging

2 Mar. cloud cover, occasional winds, few sprinkles 11:16 overcast, no rain. Periodically,

\* flights of robins and ~~some~~ wings - together & separately - a truly winter

scene and mixed flocks! 1:30 very

gusty winds. 3:30 dull overcast, windy,

huge wet cold sprinkles. 4:17 a wind driven

medium rain; fairly bright & sparkling.

3 Mar Rain & wind most of night = (1.16")

at 9:15 am. Max: 9:44 = 51°F rather calm

with light rain. 11:11 a good consistent

dawn pour. 1 pm have been few brief

heavy showers, still breezy. now lighter,

on W & S horizons = 56°F. No rain. 1:53 =

have been periodic light showers. 3 pm = 62°F

sun out first; clouds to N. 3:30 1/3 + blue with

high cirrus & lower clumps of fluffy cumulus

to N. broken sky to S. = 64°F. RAINFALL = .35"

4 Mar. Rain & same wind; 9:37 = 54°F. The

rain stopped about 10 am then the locals came

out turkeys, doves, H.F, titm & chickadees

now "average" bird activity. Noon = 60°F

This is a subtropical storm from SW =

RAINFALL = (.50") now clouds moving S.

2: pm no rain since 10 a.m.; variable clouds

and gusty winds. 3:20 clouds closing in with

light sprinkles. 4:37 no rain, much lighter.

5 Mar 1/2 high hazy cirrus overcast, 1/2 blue with

afew clumpy cirrus 9 am = 45°F. 11:15 = 50°F

now blue sky, afew cirrus & well developed cumulus to W



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5 March, ~~del Norte St, Berkeley, Alameda Co, Calif.~~

2:35 pm = 57°F nice building cumuli everywhere. 3:10 The cumuli to NW have coalesced on a broad front N to a bit beyond SW and the bottom of this new towering cumulus is getting dark, the sun is starting. Pulling clouds off to W - WNW in N. Marin & Sanoma co.

3:23 darker, seems to be making S. & sun is now blacked out. 4:36 - Clear, light breeze & 56°F, 6:32 just dark, clear, = 47°F calm

6 Mar clear, 38°F at 7 am, calm. 12:09 pm clear 49°F

7 Mar clear crisp. 8:17 = 46°F <sup>clear in sun</sup> 3:50 = 74°F

4:12 in again - its lt foot is being held up so happening about on Rt. Sycamore, flew to Pittos then very top of oak - curse lt. 4:28 flew down & SW. Scrub Jay

8 Mar clear, calm 8:20 am = 45°F This time of yr. noted for greatest number of birds. Flocks of robins, waxwings & goldfinches in the elms. 8:37 = 50 + goldfinches & 25 + waxwings. 9:22 the first young of the year - a juv. band-tail. 9:30 now breezy 10:35 nothing about, left a ♀ house finch at the D-Q. 11:47 am = 59°F almost balmy. 12:25 = 61°F with periodic gusty winds. 1 pm caught a Fox Sq. in trap & delivered to John Ninkle Lab - among the many acbs.

4:20 clear, calm = 66°F just about a spring day

6:11 sunset = 58°F Storm is due in tomorrow <sup>nite</sup>.

9 Mar 9 am = 51°F scattered cirrus from S, calm

9:50 almost solid cumulus cloud cover & now no sun 3:35 pm 54°F scattered cirrus & cumuli, periodic sun



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9 Mar. Del Norte St., Berkeley, Alameda Co., Calif  
6:06 3/4 clear = 49°F The raised finger of sun

10 Mar 7-9 am scattered clouds, fairly  
clear at times dark blue clouds to W.

9:20 dark clouds overhead. 9:41 am  
more clouds & darker with more wind. 9:52  
= 52°F & first light sprinkles. Sky now  
a uniform monotonous gray. 10:05 long  
rolls of thunder. 10:40 periods of driving  
rain & strong winds. 10:35 down pour -  
rain in top of elms. 11:10 another heavy  
down pour. - I dove on line no other  
activity. 11:15 a flash of lightning, 5 sec. and  
rolling thunder for 10 sec. great crash!

11:19 more lightning & a huge crash - very  
close. 11:23 lightning, 6 sec. a more  
modest roll of thunder 12:20 pm light rain  
with sky a bit lighter no holes, monotonous.

1:45 = 45°F light rain has been lots of bird  
activity: robins, doves, HF (9 doves on line)  
chickadees & bushtits in cab. 1:55 light to  
W. 2:15 pm = 44°F light rain, foreground dark  
with robin singing - distant & light clouds to  
W, dark overhead. 2:59. 50°F lightened up, but  
still overcast, slight breeze & disjointed cumulus.

3:32 getting dark again. 3:43 sprinkles once again  
4:05 heavier sprinkles - lots of sun lit clouds  
& blue sky far to W (SW to NW). = 44°F.

4:12 dull sun in from under clouds & heavier  
sprinkles we have had a modest soaking

\* today is a good example of bird activity  
being greatest during rain. 6:30 almost  
dark; 80% clear some cumulus & 1/2 sub of dark  
clouds to W. 6:30 RAIN FALL = (.71) 42°F

11 Mar clear 8:23 = 42°F calm



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1991

Journal

203

11 Mar., adante st., Berkeley, Alameda Co., CA

10 am fluffy ill defined cumulus clouds forming over coastal hills SW to NW.

11 am cumulus tow., in distance & 2 almost overhead. 12:30 nice fluffy cumulus clouds in all sectors of sky - they are building up with sharper edges = 51°F 4:13 same big edges of poorly defined cumuli to the W. (moving S.) = 65°F in sun. 4:48 wind from S, occasionally breezy, the cumuli are now overhead from W. Banks of clouds off to W. 6:25 = 47°F, 80% cumulus cloud cover very calm dark to W.

12 Mar 8:15 am = 44°F light rain - this is a Robin Warming feeding feaggy day

9:30 except for a towhee the place is now empty - no nothing 10 am a few breaks in clouds, brief sun and few breezes. still cloudy little birds out - a robin calling. RAINFALL

(.10") at 11:30 am. continuing cloud cover.

1:20 light sprinkles after a dry spell. 1:42 a nice wet rain shower: 1 dove on line - that's all. 1:45 1 flock warblers. 1:47 getting light, rain tapering off. 4 pm no rain out for 1 hr + clouds going N fast, at times very dark = 51°F 4:25 HF, towhees, doves (10), JS, titm.! The sky is lighter (high overcast) to W. & dark clouds moving to N. 6:06 = 51°F darkening sky.

13 Mar rain last night = (.76") 9:18 = 46°F

clear, sparkling with few building cumulus. everything is wet. 11:29 = 52°F More cumulus & to S - 1 towering cumulus. caught a Fox sg. & transported to J. Heible Park.



Christman  
1991

Journal

204

14 May, Edwate St, Berkeley, Alameda Co, California

38°F at 6:45 am. 44°F at 8:27 am - clear

with fleecy & long thin cirrus. calm.

8:51 a fox sp. arrives: 1 ran over, 2 trapped  
& transported. ~~8:59 a fox sp. arrived~~

~~more birds~~ 9:20 a few cumulus - small  
& fuzzy building up to W. 10:06 = 49°F

more cumulus, not building up, or billowing

12:15 more & larger cumulus & horizontal filly  
cirrus = 55° with light breezes. 1:34 breezy

& more clouds from S & W. 55°F. 2:06 pm  
windy - almost completely cloudy (blue

to NW) dark layered cumulus. Was at  
Nature Co. = Bought a Cloud-Weather Book

3:17 clouds W to E with patches of sky, winds  
as 25 + B.S. Samaras are falling. 3:48 1/2 clear

1/2 high clouds to E. wind - entire Pittosperm  
mowing - as oak branches & 30' of elm limbs - deep  
yellow oak leaves falling - towering cumulus to W.

Nature Co flag = from N. 4:03 clearing! to W,

clouds. Now NOF from S! 4:30 - clear except

1 puffy cumulus overhead & towering C. to

far W - NE winds - strong! 5:25 clear &

windy - trees mowing! The 'Front' passed

this afternoon & fell apart = TV News.

RAINFALL last night = (.08")

= 8 am.

15 May clear & 37°F heavy clouds over hills.

9:06 fluffy cumulus from N. 10:51 mainly

~~clear~~ clear - first cirrus to NW. wind

from N. 3:06 99% clear = 70°F The Nature Co

flag is S wind 6:17 clear = 51°F calm

16 May. 9:15 am = 49°F, breezy with thin overcast

at 9 am blue-cirrus, etc by 10 it was a general

overcast, breezy with diffuse shadows =

? alto-stratus - light gray.



Christman  
1991

Journal

205

16 Mar, del Norte St., Berkeley, Alameda Co., Calif

10:13 still dull, occasionally no shadows

11:40 since 9 no robins, waxwings, goldf.

- no bird activity - is it the breezes?

1:15 overcast, breezy with sounds. 3 pm suddenly lots of activity. The last br. has seen 100  $\pm$  goldfinches in dusk. Oaks is attracting attention new growth catkins: chickadees tit mice, bush-tits, towhees 4:35 the first drops are falling. 7 pm parch is dry! No rain yet wind during night - rain started 4:30

17 Mar, consistent midday - light rain

8:36 = 43°F, 10 am very light sprinkles.

to S & W opening up with light gray stratus behind layers of gray. 10:23 rain stopped

Since last night RAINFALL = (0.42") 11:34

Things closing in again - from S. sprinkles start, getting darker. 12:11 lightening up again light sprinkles. 2:23 stopped raining spot of blue to W. = 48°F 3:27 chunks of blue, no rain = 56°F. chunkie clouds to N, few dark spots on horizon. 3:52 some big cumulonimbus to W. chunks of loose skud skudding past

18 Mar, 8:12 am = 44°F clear with some

cirrus & lots of low distinct cumulus to W & S. RAINFALL (since yesterday noon) = (0.33)

9:30 well formed cumulus forming to W with 1 cell developing slowly into a mini-towering type. 10:40 a huge mass of cumuli built up W-NW and moved S overhead. Now a towering c. to W. and a line to NW billowing up. 11:18 the billowing cumuli are greatly expanded & from NW a huge dark one developing overhead. = 58°F, 11:46 dark overhead, in shadow here = 52°F



Christman  
1991

Journal

205

18 Mar, del Norte St., Berkeley, Alameda Co., Calif.

12:17 pm most of sky billowing cumuli, no rain.

2:52 = 57°F complete cloud cover - low cumuli & a cover of stratus (sun blurred, no shadows). 3:17 Fat sq feeding on saucers in elm across st. Not "in" to day so far.

4:34 full overcast, no sun, = 51°F slight breeze

19 Mar 7 am clear except S & W. 8 am 75°F

complete cloud cover, 45°F 11:15 am = 53°F  
In the past a general overcast developed & at 11 am very light sprinkles began. 12:31

Occasional sun & gusts of wind dark cumulus clouds to N. with few patches of blue (just those few splatters) 3:45 a huge ominous new dark cumulonimbus immediately to W

4:52 - it has moved NE, cumulus tops gray with

3 altostratus bright as background to it all  
horizons are dark to W. occasional gusts of wind

6:31 have a few light showers - now dark. 6:50 Rain

7:21 = 47°F

20 Mar rain last night (89) 8:08 = 43°F

lots of fluffy cumuli & bright blue sky.

Variable clouds all a.m. 2 p.m. are on

upper main st in leaf; in alhambra no leaves!

1:14 = 54°F cumulus building up to near NW

& getting darker. huge thunderhead & a shower  
at 2:45! then cleared, a bit, then another new dark  
till 4:30. 4:55 now another developing

21 Mar 8:30 = 47°F Variable cumulus clouds

almost clear at 7; now overcast. 10:14 fluffy

cumulus out of NW = 80% of my view.

Paper claims another storm due on Sat - Sun

3:30 lots of blue, except for a huge dark cloud  
overhead - over the hills. This seems to be  
a phenom these days = 55°F



Crivinsu  
1991

# Journal

206

22 Mar, del Norte St., Berkeley, Alameda Co. CA

10:41 am = 47°F clear, except for a few cumulus w & over hills. a few thin bands of cirrus. 11:36 now broad, inconsistent patterned cirrus to SW-W. = 51°F. Very little bird activity today. 2:16 now (= 54°F) streams of ill formed cumuli S to N & a bit of stratus to far W, of course, still cirrus high milky layer & lower stratus. almost dark

23 Mar heavy overcast, stratocumulus?

sprinkles about 7 am. At 8:45 am = 48°F occasional breezes. 10:29 winds in periodic bursts & light sprinkles. 11:11 a shower, medium. 12:34 continual soft rain with tanhaws in oak & a few galef. in elms. 1:48 harder rain, with wind & = 48°F 5:30 RAINFALL = (.91")

24 Mar rain during night 9:30 = 47°F and RAINFALL = (.40") rain never pausing, tho gusty winds at times. 10:07 a few spots of blue off to SW scattered stratus. 10:23 more blue, no rain & sun is out. "open" in relative way so went out. 11:45 over all cloud cover, = 54°F. 12:13 pm getting darker, sprinkles and gray clouds moving fast S to N. The last half hour was very active - all local species almost (no J's today so far) a flock of waxwings to N. 2:32 pm light rain, monotonous gray sky, fairly bright, = 46°F & feels cold. RAINFALL since 9:30 = (.74") 6 pm heavy dark clouds. 6:20 rain again, more dark clouds. 6:28 lightning (10 sec) = thunder! 6:30 heavy rain.

25 Mar RAINFALL last night to 9: am = (.87") at 8:30 clear except an approaching dark nimbus - rained for 1/2 hr. 10 am clear with scattered cumuli. Little bird activity 10:34 = 49°F feels much colder.



Westman  
1991

Journal

207

25 Mar, del Norte St., Berkeley, Alameda Co., CA  
11 am. Cirrus overhead, sunny with  
slight breeze, cumulus off to W heading  
N. The street has dried, the sun bright  
with everything washed & sparkling.  
The trunks of the elms dark and wet  
with lots of green moss and grayish  
lichens. 12:31 occ. sun, calm gray cumulus  
from SW & huge streams of a high stratus from  
W. 3:47 PM 56°F stratus & cumulus building  
up, dull sun, breezy. 4:12 very dark to W, from  
SW to N & wind increasing - major branches  
sun slanting in also! dramatic.

26 Mar ~~Poor~~ drama - about 5:30 am  
thunder and lightning (10+ sec down  
to 5 sec) and then a violent down pour.  
with light there was an inch of hail  
everywhere! 37°F at 7 am. Looks like  
winter snow, etc. 8:37 = 40°F sprinkles  
up to now - now moderate rain with  
breezes. still hail in spots & 1" on landing  
- doves walking on hail! 8:51 its  
very dark and cold. RAINFALL at 9 am = 1.06"  
9:34 - driving rain - heavy, slanting from S.  
9:43 rain tapering off & lighter - can see  
Marin Co. hills = 38°F! 9:51 a shower -  
straight down. 10:02 milky stratus behind  
cumulus to W. & 1 small hole of blue.  
rain stopped. 10:55 bright area to NW & a cumulo-  
nimbus towering up. a broad dark horizon  
N-S around horizon NW to S as far as I can  
see, 11:05 the dark cloud over head - very dark  
sprinkles beginning 1:08 = 51°F no rain, rather  
bright tho variable. Several thunderheads to SW.  
3:26 variable clouds, 56°F, sunny.



Christman  
1991

Journal

208

26 Mar., del Norte St., Berkeley, Alameda Co., CA  
dark from N to SW at 4 pm. 6:16 = 46°F  
scattered cumulus same arching.

27 Mar. 8 am clear calm, = 45°F 9 am with  
some fair weather cumulus & bands  
of cirrus. 11:33 clear again = 51°F, slight  
breeze. Nothing about: empty, zilch. 4 pm  
in sun = 64°F occasional breeze, clear.  
6:38 - after sunset = 51°F calm. 6:44 still  
fair amount of light - a BAT is flying in  
circles between oaks - the lines & the open area  
to SW, with dips, etc. at lobs 4-5" in length.

28 Mar. wall to wall fog. 8:30 = 50°F calm.  
Fair amount of bird activity this a.m.

10:45 first sun & few small holes in fog.

11:05 1/2 clear, = 54°F, 12:50 clear, a trifle hazy  
= 57°F 2:09 = 59°F a few cumulus building  
far to WNW, 2:29 occasionally breezy.

This a.m. Fox Eg in its became more scuffy  
all the time about shoulders exp. It was  
on ledge when another appeared on line  
from oak - grad pelage. Now, 3:06, it  
appeared in Pittos mar line - it could not  
figure out how to "retrace its tracks"  
to line. It was obvious it had not  
done this maneuver before, 4:10 = 62°F

29 Mar. clear, calm 8:30 am = 49°F

1 pm = 60°F, 3:05 = 79°F in sun. 3:46 = 77°F hazy  
to W. Leaves begin to open all over NW elm.

6:16 just about sundown = 59°F calm.

6:25 after sundown the BAT flew well over  
\* trees E to SW - seemed high.

30 Mar. clear, 8:53 = 54°F Buck in house 3:30 +

4:35 a haze is now clouds of fog to W = 61°F.

31 Mar. overcast, 8:53 = 53°F calm 9:23 these <sup>are</sup> clouds.



Christman  
1991

# Journal

209

31 Mar., del Norte St., Berkeley, Alameda Co., CA  
slight breeze from S. 1:20 small patches  
of blue & occasional dull seen with haze.  
1:56 = 62°F. hales in clouds to W. Scattered  
clouds all pm, multilayered = 6 pm = 55°F  
1 Apr. wake up at 4:16 raining! 8:06  
= 50°F. great masses of cumulus-stratus  
clouds to N only a few hales. 9:20 clouds  
lower & more consistent, = raining. 10:14  
a few hales in a thin cloud canopy & seen  
is not = 55°F. Variable clouds all pm. 4:03: 56°F  
6:12 = 53°F. 75% clear; a few long annulus to W.  
calm. bird activity minus normal, but some  
no real signs of spring beyond columbids  
everywhere is waiting - like to be bees  
RAINFALL = .07

2 Apr. scattered high filmy cirrus. 9:20  
was clear, now annulus building to W & a few  
small fluffy ones overhead. 12:04 = 57°F; a  
sparkling bright day, the trees are washed  
clean with only a few annuli off to W & NW.  
3:41 very clear 67°F.

3 Apr. clear 8:21 = 42°F 8:36 no bird activity

4 Apr. clear 8 am = 53°F a few cirrus 10:41 =  
63°F, almost entire W sector is now hazy  
cirrus & seen a bit hazy. 11:38 shadows are  
now getting diffuse. 2:09 = 71°F, sun, feathery cirrus  
2:20 surprise! Monarch sailed in front of  
window rather low heading N. 2:53 = 78°F  
6:27 sun at horizon = 60°F to W a few broad cirrus.

5 Apr. variable cirrus-stratus, lots of blue =  
8:27 = 53°F. 9:16 clear, a few fair weather cumulus  
to W = 56°F. 3:23 pm sunny a few more cirrus = 76°F  
Fog coming in in SW Berkeley. 3:37 now almost  
entirely fog (no shadows) 65°F. 5:58 same = 57°F



Whitman  
1991

Journal

210

6 Apr., del Norte St, Berkeley, Alameda Co., Calif.  
variable overcast everything but cumulo-  
nimbus 8:56 = 55°F Wgy shadows. 9:57  
now higher stratus, diffuse sun with strange  
breeze = 56°F 1:36 pm = 62°F sunny, lots of  
blue sky with N to S thin cirrus heads. 4:41  
clear, windy, = 61°F wind from N(?) -

7 Apr clear calm high 40°F DAYLITE SAVING  
TIME. to Palo Alto

8 Apr back from PA at noon. clear (cool in  
shade) 1:37 = 62°F 6:13 = 85°F in sun. clear,  
calm, quiet half day!

9 Apr. 8:04 = 50°F clear, calm. 3pm has been  
same wind, now a few cumulus. = 68°F.

10 Apr clear, 7:30 am = 40°F, 8:28 = 43° calm  
9:25 = 46°F. 11:14 = 52°F - This is a cool  
breezy day with a high pressure center  
up the coast. 1:20 some baby cumuli  
forming overhead to W., going south.  
2:04 = 58°F & breezy. 6:06 = 68°F sunny, with  
20%+ cumulus to S.

11 Apr 8:12 am = 44°F clear, windy cold.  
9:12 all of the trees are waving strangely, the  
only in periodic gusts. 2:35 = 63°F periodic  
wind, bright day not warm unless in sun.  
1 small cumulus off to NW. 6:01 = 67°F in  
sun. still windy

12 Apr clear & calm 9:45 = 58°F! 10:08 a few  
gusts of wind = 59°F. cool in house. noon =  
64°F, occasional breezes. There are lots  
of small birds flying about this bright  
spring day. 1:28 = 64°F 3:35 = 70°F about  
several doves & pair of HF with 1 scrub J  
A:27 = 84°F in sun. (65 in shade) first sign of cirrus  
far off on Wharf. a quiet spring day



Christman  
1991

# Journal

211

12 Apr, Eden St., Berkeley, Alameda Co., California  
nobody around. cirrus from W close  
hazy horizon, at 6:08 = 74°F in sun.

13 Apr fog breaking up at 8 am = 50°F, clear,  
calm, except 1 band of cirrus to SE at  
9:50 10:54 = 64°F high hazy bands of cirrus  
to W in SE to NW, 1:42 = 57°F a cool hazy  
day with a slight breeze. 7 pm = 57°F <sup>hazy</sup> clear.

14 Apr 8:30 am hazy clear with few cirrus 9:30  
50°F with dumps of fog coming in! solid fog  
over hills & to S, = 52°F at 10:15. 4:36 = 64°F  
open, but varying amount of fog all afternoon  
7:50 clear = 50°F a nice quiet Sunday.

15 Apr 8 am = 45°F clear with variable chunks  
of fog or isolated cumuli. 8:38 occasional  
gusts of wind - 47°F. Today is the first day  
that all of the elms are really green with  
leaves. 10:50 = 52°F out for awhile. There  
are cumulus & some are building up -  
breezy & feels cold. 11:55 = 54°F bright, cumuli  
are bigger and billowing. 1:40 = 57°F; 80%  
cumuli, breeze. 3:24 = 60°F wind from SW!

16 Apr 8:45 = 47°F a band of fog NW to S &  
some ahead, feels cold. 11:05 = 55° still  
50% fog - not cumulus. 12:06 = 56° a line  
of billowing cumulus over Marin Hills 1:12  
in a bright clear day - now at 54° in shade  
tumbling cumuli to W. 5:36 sun = 62° <sup>clear</sup> dusk.

17 Apr 8:23 Fog & 48°F. 10:29 fog breaking  
up - 50% blue & 51°F. 11:32 most fog has  
dispersed, = 54°F. almost clear except high  
cumulus to W at 12:30 = 55°F 2:23 now lots  
of fog SW to N; 56°F. 4:56 clear now! = 61°F  
gusts of wind. 6:17 = 69°F clear in sun. slight  
breeze. No bird activity - done



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1991

Journal

212

18 Apr., ~~Marquette St.~~ Berkeley, Alameda Co., CA  
6:30 scattered low clouds, solid to S.

8 am solid overcast except far W. =  $48^{\circ}\text{F}$ .

9:12 clear, no sun yet. what looks to  
be the first Pittos flowers and  
1 white cluster. New growth has been  
out for several weeks. 10:33 broken clouds  
=  $52^{\circ}\text{F}$ . 11:23 =  $53^{\circ}\text{F}$  now some high cirrus.

11:55 lots of high cirrus haze shadows are  
fuzzy, the sun out. 12:32 approaching a general  
high overcast - to sunny. 2:12 almost clear.

5:40 =  $61^{\circ}\text{F}$  high haze now cirrus from SW.

19 Apr 8:15 =  $45^{\circ}\text{F}$  9:30 huge bands of high  
sheets of cirrus covering most of sky.

10:28 no sun now =  $54^{\circ}\text{F}$ . 11:38 quite sunny  
=  $57^{\circ}\text{F}$  more blue. 12:25 =  $59^{\circ}\text{F}$  bright

sun & few cirrus, but a band of darker  
stratus off to W. 1:45 breezy & much more  
overcast. =  $59^{\circ}\text{F}$ . 6:36 heavier stratus  
some bright spots. =  $54^{\circ}\text{F}$

20 Apr. RAIN = .21" from  $\pm 12:30$  to 6 am  
- light 6:53 complete cloud cover =  $53^{\circ}\text{F}$ .

9:59 sun out briefly. few holes in cumulus  
type clouds going N. 10:07 a bit of a breeze.

10:12 sun, patches of blue & all shades of gray  
in chunky clouds & scud. 10:52 big chunks  
of blue, sun out dark cumulus bottoms to W  
and  $60^{\circ}\text{F}$ . Wind at Nature 6 flag is from S.  
a high stratus general overcast with chunks  
of cumulus, no sun - at 11:56 =  $61^{\circ}\text{F}$ .

1:27 a dull general overcast =  $61^{\circ}\text{F}$ . 4:20 high  
stratus lower others; =  $59^{\circ}\text{F}$  all outside temps.

6:12 heavier stratus level =  $55^{\circ}\text{F}$  almost no sun.

21 Apr. RAINFALL = .25" last night. 1:07 =  $66^{\circ}\text{F}$   
cumulus & high stratus everywhere with



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Journal

213

21 Apr, del Norte St., Berkeley, Alameda Co., CA  
towering cumuli over hills on horizon.

3:42 windy, all high stuff gone, towering  
cumulus to W =  $76^{\circ}\text{F}$  in sun. 5:58 =  $66^{\circ}\text{F}$   
just about clear, cumuli to NW only.

22 Apr 7am =  $48^{\circ}\text{F}$ ; thin fog came, 8:11 =  
 $49^{\circ}\text{F}$  The apple tree is in flower, & has  
been for a week plus. Today buds  
opened in the lindan tree! 5:09 =  $63^{\circ}$   
clear except strings of fog.

23 Apr 8am =  $48^{\circ}\text{F}$  with complete low  
cloud cover. a slight mist began at 9:30  
10:40 =  $49^{\circ}\text{F}$  getting darker. 10:53 almost  
a light rain falling. (lasted 5 min.) 1:07 =  $52^{\circ}\text{F}$   
dull overcast & almost cold. 3:40 so far  
no sun today =  $52^{\circ}\text{F}$  5:57 =  $53^{\circ}\text{F}$  broken  
clouds, no blue but strong diffused light.

24 Apr overcast, light sprinkles at 8:15  
9:27 =  $52^{\circ}\text{F}$ . 10 a.m. a nice gentle rain =  $49^{\circ}\text{F}$   
11am rain stopped & lightening up a bit. at  
11:37 =  $52^{\circ}\text{F}$ . 4:07 still overcast hanging <sup>stratus</sup>  
=  $63^{\circ}$  bright, no sun. RAINFALL = .09"

25 Apr up early dawn about 6 when  
singing since 4:51. 6:03 =  $48^{\circ}\text{F}$ . 6:12 almost  
light enough to read. Clear - 1 or 2 long  
cirrus. 8:22 high cirrus increasing to N.  
9:15 more stratus in from W. 9:35 more stratus  
sun now obscured. 11:15 variable low clouds  
& cirrus 12:07 =  $57^{\circ}\text{F}$ . 1:34 variable clouds, 75%  
=  $60^{\circ}\text{F}$ . 2:18 complete cloud cover, all muzzies,  
opened up a bit at 3 with few clouds. 4:37 =  $57^{\circ}$  -  
complete cloud cover. 5:40 light sprinkles.

26 Apr variable low clouds 8:47 =  $49^{\circ}\text{F}$ . 10:08  
about clear,  $52^{\circ}\text{F}$ . 11am =  $54^{\circ}\text{F}$  clear except for  
some real baby cumulus overhead, <sup>light</sup> muzzies.



Christman  
1991

Journal

214

26 Apr., del Norte St., Berkeley, Alameda Co., CA  
1:30 at Yukin's house in Kensington -  
stellar jay, singing Bl-headed vireos  
& blackcap ? ♂ Antelope warbler in an  
open disused oak & in dense pine.  
3:55 98% clear - 86° in sun; 1 wispy cirrus.

27 Apr. clear, calm 9:15 am = 52°F. 1:05 sunny  
62°F, occ. breeze - light

28 Apr. clear, 9:16 = 54°F a clear quiet spring  
day 3:15 a few small cirrus, = 72° in shade.

29 Apr. clear, 47°F at 6:30; 8:20 = 54°F; 9:45  
60°F. 3:34 = 86°F, slight breeze. 7:39 sun about  
dawn, = 66°F, unseasonably HOT here.

30 Apr. 48°F fog at 7:30 & 8:30 am. Began up  
today - clear about noon, then N-S bands  
of cumulo-stratus to N. after, 6 clear except  
for a few cumulus. Wednesday, Windy at 7:30 <sup>55°F</sup>

1 May variable clouds - few cirrus, cumulus  
and towering cumuli. 7 am = 45°F. 8:47  
= 46°F 9:45 mostly dark cumulus over  
head with periodic sun & 50°F. 10:06 a light  
mist falling - a chunk of blue tow. 10:13 it  
passed: now sunny, breezy, lots of blue & 50°F.

11:05 complete cloud cover, breezes & 52°F.  
cumulus building. 11:24 sprinkles again, getting  
dark. 11:54 sprinkles have been very brief -  
~~now~~ windy with a cover of stratus & clouds.

2:29 dawn pass - cloud c, but discrete clouds  
3:17 " " heavier, roof dripping. 4:03 few  
holes in dark sky, no rain. 5:30 p.m. up

same sun, high stratus, low cumulus to NW.

2 May low dark clouds 47°F at 8:20. 12:27 =  
56°F still overcast with occ. breezes. 3:54 = 59°  
no real sun or sky all day. feels cool!  
5:38 = 54°F still overcast



Christman  
1991

Journal

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3 May, del Norte St., Berkeley, Alameda Co., Calif  
9:22 am = 51°F low cloud canopy, slight breeze. 3 pm sun out 90° clear = 61°F  
6:06 clear, breezes = 63°F.

4 May 9 am fog & 49°F. 10:26 a diffuse sun with a few holes in fog, 54°F slight breeze. The elms are now out in their full summer glory of leafage! 11:07 almost clear - still cool! 11:35 still 54°F multiple bands of cirrus from NW to SE with transverse ribbing -

3-way clear, 64°F clear 7:02 = 67°F in sun, sparkling clear - with band of Macbeard <sup>clouds</sup> to W  
7:35 above now overhead with stratus <sup>clouds</sup> <sup>off</sup> <sup>pressing</sup>

5 May hazy clear, - high cirrus 9:26 = 54°F  
10:53 misc stratus to W = 57°F. diffuse sun.  
12:09 a massive bank of light, stratus from NW to SE & now, nearly overhead. 1:13 = 67°, thin complete overcast, bright diffuse sun.  
3:19 = 73°F more high cirrus, some hazy blue & solid diffuse stratus. 4:24 = 74°F <sup>lower</sup> <sup>stratus</sup>  
5 - 74°F heavier stratus 6:29 = 65°F lower cloud cover

6 May clear 8:35 = 54°F; calm. 9:35 several bands of cirrus to W; hazy horizon = 56°F. heavier cirrus S & W = 2:26 = 67°F. 6:10 in sun 70°F clear with a few flimsy, thin cirrus to SW. 6:45 in sun = 84°F clear, but a few more cirri to W.

7 May variable cirrus overcast; 55°F at 8:05 with diffuse sun. 1:25 clear, except convergence of cirrus off to NW = 68°F, nice sun, 6:45 = 75°F cirrus & Macbeard clouds from S & W for a change! 7 pm off to W. layered stratus.

\* Bird activity has changed - 2 pr towhees, the J's, few robins under elms up st., H.F. & chickadees; the stray nuthatches. Lanes of



Christman  
1991

Journal

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8 May, d. Thaste St., Berkeley, Alameda Co., CA  
clear except for low clouds to W-NW &  
over hills - 8:07 = 51°F 8:11 low clouds  
approaching from NW 10:47 am = 56°F, clear  
windy, chilly. High pressure to N. 2:48 pm  
= 62°F in shade, clear; sparkling; windy.

9 May clear 8:03 = 45°F cool. 11:10 = 53°F  
with first breezes of day. 1:40 = 59°F bright clear  
light breezes. 3:45 very light breezes. cumulus  
low, to NW & N. Sparkling day. 5:51 these clouds  
now over head with gusty winds. = 60°F 7:14 = 59°F  
heavy but broken cumulus over head & a light  
rain! clear & bright to W. Periodic breezes.

10 May 7:52 am = 51°F clear, breezy. 1:30 = 58°F  
few cumulus to W. lighter wind. 2:24 = 59°F cumuli  
larger & disconnected line to S (SW from NNW).

11 May 9:34 Fog, = 54°F. 1:48 = 56°F fog.  
3:46 = 51°F has been misting for 1/2 hr., breezy,  
3:54 periodic very light sprinkles. 6:06 = 51°F <sup>no</sup> mist

12 May monotonous fog 10:20 = 53°F no breeze.  
1:01 fog, fairly bright, = 58°F. 3:35 diffuse sun,  
= 63°F still dull high overcast. 6:07 fog & = 56°F.

13 May at 6:30 a light drizzle; by 7:30 it's a  
respectable rain! 8:12 = 49°F we might  
get a decent soaking. 8:54 rain let up a  
bit. same temp. 9:46 heavy mist falling,  
= 51°F. 10:08 a light rain again. Noon getting real  
bright = 57°F RAINFALL = .20". 12:20 what  
looks to be a cormorant flying rather high  
S to N. First small patches of blue sky

appearing. 12:46 sun out, = 56°F. 2:04  
sunny mixed type clouds, windy = 62°F 2:50  
windy same cumuli seem to be filling up. 4pm  
cumuli going N. = 69°F sunny, & breezy. 5:24 overcast  
= 56°F wind



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14 May, del Norte St., Berkeley, Alameda Co., California  
Clear except for fog halo to SW. 8:30 = 51°F  
10:05 = 55°F. The cat has been getting business  
from *Vireos gilvus*, lark-tits & *Wilsonia*. 2:16  
= 63°F calm, sparkling clear. 3:30 = 69°F.

6:02 = 79°F in sun, bright sun; very slight breeze.

15 May 8:08 = 50°F clear, calm. 12 noon a  
bit of a breeze, 59°F clear. 2:27 = 63°F in  
shade, still clear, slight breeze. 2:40 first hint  
of cirrus far off to W. 4:05 = 89°F in sun. cirrus  
a bit higher on horizon. 6:45 = 82°F filling cirrus  
& a few small cumulus overhead breeze.

16 May clear breezy 8:30 = 51°F. haze low  
& several bands of ? cirrus S to N. off to SW.  
hazy getting closer, the " " are macular  
clouds - stratus. 9:27 getting more windy  
& haze is almost overhead. still sunny at  
9:46 = 57°F, uniform haze. 11:20 chunks of  
fog S to N, 30% cover. 1:35 haze clear, 59°F, WINDY.  
2:23 still patches of fog & more wind, 4:28 = 71°F in sun  
windy bright - cirrus & detached stratus S to N  
in a few streamers. 4:48 10% blue, laters wind  
various levels of stratus & cirrus & some low clouds.  
6:04 complete cloud cover, same wind, = 58°F.  
6:18 a mist falling at an angle. 6:22 light rain,  
= 56°F, windy still (!) 6:25 heavier. 7:03 rain has  
lightened up last few minutes. 7:30 = 54°F, it's breaking  
up, sun there, small patches of blue. chunks of cumuli.  
7:56 almost clear! a few fluffy cumuli, wind = 53°F

17 May clear, except rather diffuse cumulus  
from NW to NE, slight breeze & 49°F.  
8:35 a few chunky cirrus from NW & cumulus are  
beginning to have form = fair weather cumulus  
& heavier wind. high pressure to N. 9:15 =  
52°F breezy & more cumuli 50%+ sky.



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17 May, del Norte St., Berkeley, Alameda Co., Calif  
10:45 = 58°F more fair w cumulus, windy  
2:59 few stratus developing & few tower cumuli  
over hills, gusts of strong wind. = 61°F. Sunny.  
6 pm = 62°F high stratus & cirro, windy.

18 May clear but for some filmy cirrus  
& bank of something to W. 6:22 = 42°F  
7:21 = 45°F now puffy overcast of cumulus going  
S! 80% & cover. 9:02 complete cloud cover,  
= 51°F. 10:10 = 53°F a bit breezy. More open  
at 11:30 with sun out, high stratus = 55°F.  
11:58 darker wind & clouds from W. near. 1:42 sun  
out of patches of blue - 60°F

19 May Caught Fox Sq at 7 am - down  
Galano! rain last night

8:40 = 48°F clear except for thin cirrus  
haze, calm. 9 am cumulus c. from N, NW.  
1:24 = 59°F hazy clear; cumulus off to W. 5:35  
- sunny of few cirrus = 85°F in sun.

20 May 8:46 am overcast = 58°F du past  
several months there have been 2 Fox Sq.  
tho I suspect 1 named on - the male  
ad. 1, better pelage & tail. Now long will  
a name live? 8:54 sun out briefly. 9:09  
few patches of blue. 9:51 a Fox Sq. on line. 11:19  
just about clear, fog over bay = 55°F. 11:55 = same,  
patches of fog overhead. 4:12 = 83°F in sun; breezy  
clear, fog to W going NE - N fast. 4:38 fog to W even  
with top of oak - fast

21 May fog started clearing by 8. 9:30 = 54°F with  
scattered fog, calm. 10:52 = 57°F fog back  
11:50 Fox Sq Pitts to line into oak. This one is  
easy to scare off, unlike the other 1.

5:55 bright overcast, = 58°F breezy

22 May 8 am = 50°F fog. 9:13 nothing in except a

chickadee



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22 May, ~~off~~ Route 26, Berkeley, Alameda Co., Cal.  
then several H. finches. Leaves in air 10:52

11:07 Fox Sq. in Pittos trying to get to line, but  
even they trimmed this tree Sunday so the  
easy access has gone what will it do?

1:30 1/2 blue 1/2 patchy fog - 59°F windy. 3:37 - 6 to  
F, fog returning 25% blue, breezy. 5:35 bright  
tho no sun, can photo Fog = 61°F. slight breeze.

23 May Fog 8 am = 53°F. 8:30 sun out, a few  
hales in fog. 8:45 almost clear (tho hazy). 10:09

Fox Sq. with long tail from cab on line to Pittos

12:20 = 61°F clear, tho a bit hazy. 1:06 a

Fox Sq. in; chased down line into Pittos.

its tail is rather scruffy. It's new in

there chattering - much as well. This

can't be the one I "washed" could it?

5:48 clear, bright, calm = 83°F in sun. 7:10 ~~inside~~

24 May clear with variable wispy cirrus

9:20 = 60°F! 10:53 = 64°F cirrus heavier to

point of dull sun & haze. Little bird

activity this a.m. The D-4 is down to 3"

so no chibadees & finches. Only 1 towhee.

3:26 still lots of cirrus - 75°F in rather hazy sun.

5:43 = 71°F continuous stratus; dull sun!

25 May clear 9:30 am = 57°F. 11:30 = 62°F. now

cirrus approaching over cab & haze below

to W. a weak front approaching. 2:31 isolated

cirrus = 70°F slight breeze 3:57 in sun = 92°F.

7:32 = 67°F in sun, bright & clear. Nice day for a change.

26 May clear, slight breeze. 9:10 = 53°F. 3:46 = 81°F

in sun breezy clear. 7:02 = 74°F clear, slight breeze.

27 May thin broken fog, 7:am 50°F, 8:45 = 55°

sunny, slight breeze. 2:38 = 68°F clear, but hazy.

28 May thick high fog, 8:11 = 49°F, breezy. 11:11

Fog & wind. 12:36 intermittent sun; breezy & 59°F



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28 May, del Norte St., Berkeley, Alameda Co., Cal  
3 pm was clear as the heavy & breezy  
new fog returning. Caught a Fox Sq &  
took it to J. Hinkle Park. 6:02 bright sun,  
fog raising in = 73°F.

29 May clear 8:05 = 59°F a few whiffs of fog  
going N. 10:28 layers of stratus off to W. = 59°F  
12:53 has been overcast for 1 1/2 hr. = 61°F  
stratus approaching under high cirrus, etc.  
3:21 = 67°F diffuse sun, complete high overcast  
with broad bands of darker stratus. 5:43

general overcast, sun to far W., almost calm = 57°F

a light rain started 11:30 RAINFALL = .12"

30 May 7:58 am clear, windy, = 48°F. 11:25  
since about 9 windy with fair weather  
cumuli out of NW-N. = 57°F. 5:50 has  
been clear awhile, = 86° in sun.

31 May 8:24 am clear, calm = 57°F. Nice day

1 June 9 am = 63°F clear, calm. 3:39 = 75°F

light breeze, getting hazy & isolated small globs of fog.

4:16 more small fog chunks from SW. = 86°F 4:37 =

80°F (all in sun) larger chunks of fog raising in with  
breezes. THE FIRST Oak Moth - L. 4:52 dull sun

complete fog - thin, cover, acc. breezes = 81°F

5:55 = 57°F slight breeze, breezy. quiet day

2 June 7 fog, 53°F to Palo Alto

3 June 12:15 back from P.A., small patches of lingering

fog = 56°F breezy 5:32 = 85°F, slight breeze, clear.

4 June fog 7-8 ±; 9:30 mostly clear = 53°F



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4 June, ~~del Norte St. Berkeley, Alameda Co~~  
11:09 = 57°F. Nice day

5 June Fog but sunny & almost clear by 8:45  
3:15 = 61°F bright sun, windy with bits of fog  
3:20 - 1 oak moth.

6 June part fog 6:30; all fog 7:45. 8:06 = 49°F  
9:36 sun out, still overcast N to S on W view.  
11:47 variable fog - sun = 55°F with wind. 4:42  
almost clear, some fog = 79°F, breezy.

7 June Fog. 9:37 sun, 1/2 fog = 53°F. 1:26 clear,  
calm, cirrus to W. = 65°F. 3:25 = 74°F <sup>more</sup> cirrus W.  
3:47 - 1 oak moth. 3:52 saw 2 oak moths. 4:12  
thin hazy cirrus overhead. 90°F in sun. 4:20  
3 oak moths, then 4

8 June 9 am = 55°F clear, a bit hazy; warm  
on Salinas Ave 8-8:45. 10:12 hands (N to S) of  
filing cirrus. This a.m. saw 3 cats in  
front yard (+ 1 = "Japan" orange & Isis  
so 5 cats about! 4:15 = 90°F high sun;  
1 oak moth. 4:45 2 oak moths.

9 June 1 pm = 59°F. Fog early, partial sun  
late am, saw few bits of fog. cal. 3:23  
= 67°F, bright sun, calm, feathery cirrus. 3:54  
cirrus N to S, so back side high pressure.  
Been periods of no wind, perhaps a deer flying  
over. No tanagers. 1 J. scrub 4 pm = 91°F, 1 oak  
moth.

10 June Fog. 6:08 = 51°F 10 hazy clear, sun. calm.  
2:34 = 65°F clear, calm - 1 oak moth

11 June = 55° at 8:11 - Fog. 8:49 dull sun few  
holes in fog. 10:23 = 59°F clear, high thin band of thin  
hazy cirrus. 12:49 slight breeze = 62°F. 3:17 in sun  
66° First oak moth (1, 1c) 3:24 2 oak moths 3:50  
83°F = 3 oak moths

12 June clear, breezy, small drunks of fog 9:16 = 54°F



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12 June, del Norte St., Berkeley, Alameda Co., CA  
1 pm. 60°F breezy clear. 2:46 = 64°F same  
- first oak moth (1): 3:05 - 3 o'clock.

6:27: 87°F in sun, breezy

13 June clear 57°F at 9:46 am. 1:43 = 64°F 1 oak  
moth 3:30 75°F. 3 oak moths. 3:47 = 84°F with  
4 oak moths & becoming breezy.

14 June clear, calm 9:22 = 56°F. 1:50 breezy  
& 62°F. 4:33 = 85°F 3 oak moth (at 1 time);  
then 4. 4:47 at least 5. 4:54 6!

15 June clear, slight breeze, 9:42 = 58°F. 12:30  
67°F getting quite breezy. 3:13 = 77°F 1 oak moth.  
3:28 - 2 oak moths. breezy. 4:27 = 93°F in sun,  
good wind gusts. at least 6 oak moths. 6:33 = 89°F.  
clear, almost calm.

16 June clear breezy, 10:22 = 60°F feels cool.  
1:02 = 67°F light breeze. 1 oak moth. 2:34 = 70°F  
and 1 oak moth.

17 June clear cool - 7 am. 8 patchy fog & 53°F.  
9:20 clear, light breeze = 56°F. 12:30 on = 65°F  
with bands of cirrus S to N, faint breeze. 3:14  
= 68°F 3 oak moths. 3:55 more cirrus S to N 85°F  
4 or 5 oak moths. 5:55 bright sun, few cirrus -  
86°F in sun. 5 or 6 oak moths.

18 June 9:44 am = 54°F Fog, breezy. 9:57 dull  
sun, few holes in fog. Brighter sun, bigger holes &  
59°F at 10:44 am. 11:37 = 57°F windy; 75°F to clear  
2:17 fog coming in again. breezy = 64°F. No oak moths  
2:26 first (1) oak moth. ~~10:37 = 58°F~~

19 June 11:36 = 59°F patchy fog, sunny all am.  
breezy 1 pm caught Fox sp. in trap & delivered  
to John Hinchey Park - 1/2 mi to NW. 1:30 = 61°F  
still small patches of fog. First oak moth out.  
2:55 = 65°F 1 oak moth. 2:56 2 oak moths. clear  
3:47 = 79°F breezy 2 or 3 oak moths



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20 June, del Norte St., Berkeley, Alameda Co., Calif  
9:53 = 66°F, clear with feathery cirrus from  
S & breeze. 2:33 more cirrus = 67°F. 2:39 first  
oakmoth; 2:41 more 2. 3:31 = 74°F 4 oakmoths  
3:44 = 50-m

21 June, clear with cirrus from S 8:38 = 54°F  
2:15 breezy & clear = 62°F 101 2 oakmoths 6:19  
Clear with fog draping over hills. = 86°F in sun  
breezy. 6:37 = 86° 1 oak moth nuthatch singing

22 June Fog 9:05 = 54°F slight breeze.  
10:14 a Fox Sp. in Pitos next to line & seems  
to not know what to do. This is first doc  
seen since I 'transported' or departed  
the last 1 earlier this week. 10:17 now on line  
approaching house. 10:40 1 came up down  
pipe to landing, scared down line. This has  
to be 1 familiar to area, but cautious. Noon  
= 59°F very breezy with fog going N. with periodic  
sun. 4:03 = 73° blue & fog & breezes; 2 oakmoths.  
4:19 2 oakmoths to N. 4:30 2 oakm. 6:09 = 66°F  
more sun, big patches fog. no oakmoths. windy -

23 June 10:15 Fog & 54°F slight breeze. 12:36  
1/3 blue to W, fog overhead & windy. 60°F  
some cirrus to W. 1:58 = 63° first oakmoth.  
2:39 a little blue to W, windy & 63°F 3:11 2 oak  
moths & same temp. 5:25 = 57°F, Fog, breezes.

24 June Fog 8:23 = 51°F 11:33 = 57°F slight  
breeze, still heavy fog cover. 1:58 = 60°F bright  
across, slight breeze. 3:50 = 60°F 1 oakmoth.  
3:54 2 oakmoths, breezier!

25 June Fog 10:20 am = 57°F. 11:30 = 61°F with fog  
cover & diffuse sun Noon Fox Sp. in, good tail  
not 1 transported. 2:45 = 62°F in shade, bright  
sun 85% clear, light wind. 2:59 first (1) oak moth.  
3:43 a bit more fog, sunny = 68°F; 1 oakmoth 3:49 = 1 a.m.



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25 June, del Norte St., Berkeley, Alameda Co., Calif.  
30. m at 3:51. 3:54 = 4 abn moths. 5:39 = 75°F

bright sun, 20% fog. 5:42 = 4 abn moths.

26 June Fog 9:55 = 54°F. slight breeze. 3:40

still fog over cast, no sun so far today: 58°F.

3:45 = 57°F 1 abn moth. 3:50 2 o.m.; then moths

5:49 = 53°F still fog & breezes. a very quiet day

27 June high stratus overcast, 7:56 = 56°F

calm. 10 am overcast, calm = 61°F. 10:38 May

be 2 Fox Sp. 10:56 are 2 Fox Sp. - 1 a well

hung on. This is new. 2:30 overcast = 66°F

afew brief light sprinkles - 1 abn moth.

2:54 2 abn moths. 3:24 2 o.m. 6:23 <sup>over</sup> calm = 60°F

28 June 8 am = 55°F since ± 3:30 am a

light rain falling, calm, small puddles

on landing. 10 am = 58°F rain almost stopped

10:32 = 60°F the lightest of mists now - 1 abn-

moth! (?) 10:55 sun out, 62°F. 11 a.m. = 61.2°

RAINFALL. 12:30 light rain again. Stopped

sharply, 3:29 = 63°F overcast, diffuse sun. 3:54

2 abn moth. Saw clouds scudding, <sup>wild</sup> breezes

29 June overcast, 9 am = 55°F now a very light

drizzle. 12:20 overcast, calm, 66°F. 12:27

sun out but can't see any blue. 12:49 off to

w same blue, no sun now. 1:30 almost clear!

63°F. 2:28 clear = 65°F, slight breeze. 2:33 1 abn

moth. 3:17 = 68°, 1 chunk of fog to NW. 2 abn m.

4:15 = 87°F in sun, slight breeze 4:38 = 90°F in sun

3 abn m., calm. 4:39 - 4 abn m. 7 pm = 87°F clear,

but small patches of fog forming overhead.

30 June clear, calm, 9:50 = 64°F. 1:11 a very quiet

day, = slightest breeze & 76°F. 3:23 same, 83°F, 1

abn m. 4 pm = 100°F in sun; 3 abn m.

1 July clear, calm, Nat 1:52 = 95°F. 1:56 - 1 abn moth

4:04 = 106°F in sun; 2 abn m. 8:07 same; 76°F in sun.



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2 July, del Norte St., Berkeley, Alameda Co., Calif.  
Clear, calm, 8:10 = 63°F.

3 July Anne up yesterday afternoon,  
& this a.m. till 11am. Not yesterday with  
fog to W. so variable. At 8am fog down  
in Albany. Clear here 11:30 = 64°F; hardly  
a breeze. 2:33 calm, 66°F in shade. 3:15 = 68°  
calm, 1 oak m. 3:39 74°F. 6pm = 89°F in sun quiet.

4 July low (tree level -) fog at 7 & partly  
clear here at 8:45. 10:30 = 59°F calm  
1:38 slight breeze, = 67°F - feds cool. 3:33 -  
2 oak m. = 71°F very slight breeze - clear  
since 8:45 am - here! 6:25 = 84°F in sun.  
no breeze, hazy SW-W. - Fog will come in!

5 July fog at 9:52 & = 56°F, slight breeze  
12:03 still fog; = 61°F. 2:35 - still fog, breezy,  
= 62°F. 3:30 fog & 66°F. 3:37 same - 1 oak m.  
then 2!

6 July fog - 9:12 = 56°F slight breeze. 12:01 still  
fog & = 62°F. 12:56 - gusts of wind, still 62°F.  
3:39 windy, 67°F, a few small holes in fog &  
occasional sun. 4:09 dull sun, overcast, still  
windy. = 65°F & 1 oak m. 4:46 = 2 oak m. 6:16 =  
59°F, hazy sun, mild wind, fog moving NE fast,  
a dull day. no oak m. now. 6:42: 57°F = 1 oak m.

7 July 11am = 57°F fog all a.m. slight breeze.  
2:16 a few small holes in fog W-SW, slight breeze  
= 66°F. 2:24 first sun, more blue to SW.  
5:32 bright sun, 3/4 fog, = 71°F mild wind.

8 July about 5am a light drizzly rain started.  
9am = 52°F, wet outside, calm and "T" of  
Rainfall 10am = 53°F same, tho no drizzle.  
2:34 = 61°F overcast, breezy. 3:28 12 oak m. (1)  
3:39 = 63°F a few holes in overcast to W. 6:44 = 57°F  
cloud cover, bit of a breeze.



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9 July, del Norte St., Berkeley, Alameda Co., Cal.  
Fog, 8:36 = 51°F.

14 July returned from NTA in Reno. Fog  
at 1:45; 3 pm = 64°F fog.

15 July, 9:30 am fog clearing up, calm, 58°  
2:45 clear, but for a bank of clouds off to W  
= 65°F. 3:23 big chunks of fog over, still  
sunny & = 67°F in sun. 7:37 pm a bright sun  
behind thin drifting fog seeds; = 59°F, slight breeze.

16 July Fog, 10:13 = 61°F slight breeze. 11:17 am  
small patches of blue, diffuse sun; = 65°F  
a low pressure front passing thru.  
stratus clouds above the small patches of  
fog. 1:22 only bits of fog with wispy cirrus  
1/3 blue = 68°F. 6:50 was almost clear; with  
feathery cirrus; now stratus moving in  
at 900F in sun.

17 July Fog to 10 am at 11:15 = 63°F & a  
large black cumulonimbus from STON  
100+ over trees to W. Clear p.m. 3:45 pm  
= 77°F in sun; rafts of small fog chunks.

18 July Fog, slight breeze 10 am = 57°F.  
12:22 dull sun. 2:10 = 64°F bright sun & some  
blue, but small chunks of fog to NW. 3:45 =  
72°F in sun, 7/3 fog off & in sun.

19 July Fog; 8:34 = 57°F. 2:48 hazy clear, but  
for small wisps of fog, going N and  
rather windy. 3:20 = same; 2 Foxes on line  
chase into oak some chattering 4:45 pm =  
diffuse sun, = 73°F fog pouring in, in chunks.

20 July overcast, 8 am a few large raindrops  
by 9 more, streets wet. 10:53 = 57°F, light breeze,  
overcast, now dry! a little sun in p.m.

21 July Fog 11:12 = 62°F. 11:26 dull sun a few  
patches of blue, 4:02 = 82°, hazy clear.



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21 July, all route St. Berkeley, Alameda Co., Calif.  
5:56 pm hazy clear: 83°F in sun.

22 July Fog 9:37 = 60°F, 12:04 sun out a few  
small holes in fog. 3:42 = 72°F fog returning  
5:25 complete fog cover, diffuse sun - 1 towhee!

23 July Fog. 9:39 = 57°F. Sun out ± noon 3 pm  
67°F wisps of fog returning. 5:33 fog cover,  
dull sun, breezy: 67°F in sun

24 July Fog 2:25 pm sunny a few holes in fog  
breezy & 71°F in sun. 6 pm = 61°F breezy fog

25 July 8:45 = 56°F slight haze & Fog.  
10:52 am dull sun; a few holes in fog = 62°F.

26 July fog. 9 am first sun with holes in fog  
& = 59°F. 9:43 = 59°F almost completely clear.  
3:30 = 68°F 4/5 fog slight breeze

27 July 10:21 a.m. Fog & 58°F hardly any  
breeze. Fog all day

28 July 10:16 = 59°F Fog. 6:38 clear from 2  
- 5; now = 69 in sun fog back.

29 July fairly low fog at 6:30 am - 8:34 = 55°F  
9:43 a.m. = dull sun out, still. P.M. of <sup>feathery</sup> cirrus.

30 July Fog. 9:26 = 61°F 9:58 dull sun. 10:05  
now holes in fog. 2:09 = 64°F clear except for  
few wisps of fog. 3:37 <sup>69°F in sun</sup> 1/2 of a spec is returning fog  
6:10 = 62°F complete fog. Ravens & Fox Sq. feeding  
6:14 2 Fox Sq. antagonism between.

31 July 9:54 am Fog. = 58°F. 2 Fox Sq. both rather  
scruffy in pelage.

1 Aug. Fog, 8:16 = 57°F. 9:40 off on dull sun = 60°F.  
Fog dispersed by 11 am ±; 11:45 = 60°F slight breeze  
6:21 clear except wisps of fog = 71°F. quiet day.

2 Aug. Fog. 8:35 = 55°F 11:30 Fog & 59°F. 2:00 pm  
breezy = 61°F. 3:15 same, 62°F.

3 Aug. 9:52 am = 54°F Fog. 10 am breezy - Lots of  
dead leaves in street gutters tho not like Oct.



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3 Aug., del Norte St., Berkeley, Alameda Co., CA  
2:02 = 62°F breezy fog!

4 Aug fog. 9:45 am = 56°F breezy. 3:26 pm  
breezy, 63°F only brief sun so far. 5:58 =  
58°F fog slight breeze.

5 Aug Fog, 8:04 am = 55°F. 10:05 = 60°F occ.  
breezes This is apparently an 'overcast'  
- acts like clouds. A weak low pressure  
front is going thru. 3:24 windy clear,  
few bits of fog going inland. = 69°F.

6 Aug. 8:29 am overcast, calm & 56°F Every-  
thing wet this am. Dew dripping heavily  
at 2:45 am. 1:03 dull sun. few holes in fog 67°  
3:30 pm occ. bright sun, windy & 72°F.

7 Aug fog & 61°F at 8:42 calm. 9:07 holes in  
fog with dull sun. 9:57 just about clear, bright  
clear sun at 62°F. 10:24 lots of feathery <sup>cirrus</sup>.

8 Aug. low fog at 7 am clearing & sun at 8 am -  
61°F 1:04 = 69°F in shade, sprinkling clear.  
6:29 pm CLEAR, calm. in sun. 98°F 8:28 almost  
dark 68°F clear

9 Aug fog at 6:30 am 8:12 = 62°F fog & dull sun  
slight breeze. 8:17 1/3 blue! 8:47 just small  
bits of fog left. calm & 63°F. Yellow leaves in  
abundant on car hood at 6:53 am. busy  
most of day. 6:10 = 83°F in sun, clear calm <sup>same</sup> haze

10 Aug. heavy fog at 7 am clearing 9 am = 60°F.  
1 pm = 69°F in shade, calm. 2:13 = 69°F, shade  
4:07 = 90° in sun. 7:24 = 64°F dull sun, fog approaching.

11 Aug. Fog in am, clear pm. 6:57 = 60°F clear calm.  
8:08 pm clear & 60°F

12 Aug 8:06 fog & 57°F. 11 am = 63°F, calm, clear  
since 9+. 3:17 heavy clear, some wind = 69°F  
a mass of heavy clouds to SE to S, 8:04 pm = 62°  
calm - layers of clouds overhead, clear to W.



Christman  
1991

Journal

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13 Aug, del Norte St, Berkeley, Alameda Co., California  
Rain started at 4:11 am. 8:30 = 65°F com-  
plete minus cloud cover, occ. sprinkles  
and = (.15") RAINFALL. 11:20 am few holes  
in the ? strato - minus. same dull sun.  
= 77°F. 12:15 = 80°F in shade, calm bright sun  
with thin stratus, dark to W. 2 pm 85°F, breezy  
& scattery! high ripply stratus heavy to N  
occasional rain on St N. 4:15 clear, same  
wind, clouds way off to W. = 111°F & in sun  
6:33 clear, calm = 102°F in sun.

14 Aug 8:24 am 65°F cumulus clouds from S  
with heavier overcast to W. calm  
9:09 complete <sup>dull</sup> overcast now with occ breezes  
& 62°F. 10:47 am = 65°F overcast cumulo-  
stratus, etc dark to W & over hills. 1:04 = 63°F  
complete dull overcast, getting dark! 3:41  
few light sprinkles. 6:29 dark cloud cover  
cumulo-stratus - minus; = 59°F. calm.  
6:49 Sprinkles

15 Aug 8:50 am = 60°F slight breeze & complete  
cloud cover. 12:20 = 63°F calm, almost clear.  
1:54 = 64°F clear, breezy. 3:44 pm 78°F in sun

16 Aug. Fog & breezy 9:26 = 59°F. 11:54 dull  
sun - still fog & = 65°F. 3:08 pm a breeze,  
never entirely cleared up = 68°F. 6:22 pm fog  
raining in fast, 60°F in partial sun. windy.

17 Aug Fog with slight drizzle. 9:21 = 55°F  
10:49 = 68°F, still fog. 11:53 = 59°F same, a breeze.

12:37 filled D-4, 4" above tap perch. 1:22 Fog.  
2:15 = 65°F breezy. 4:25 pm 66°F in sun <sup>small holes in</sup> windy fog.

18 Aug Fog, condensation all night 9:13 = 65°F  
cleared awhile after 3

19 Aug Fog & calm 10:15 am = 59°F 3:37 = 70°F hazy  
sun, slight breeze, few holes in fog.



Christmas  
1991

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## Journal

- 20 Aug. del Norte st, Berkeley, Alameda Co. A.  
Fog came again 3: clear, 68°F. warm  
aut. 6:21 pm fog; light to w., 62°F. busy day
- 21 Aug Fog cleared by 10 am. 11:02 = 62°F slight  
breeze. 2:43 = 67°F a breeze, clear. 7:07 = 67°F  
8:14 after sundown = 59°, slightest of breeze.
- 22 Aug. Fog till 10:30 I am then pretty much  
clear with few fleecy cirrus. 10:49 = 61°F.  
noon - more high cirrus. 3:30 = 73°F in sun  
even more cirrus.
- 23 Aug. Fog. 9:33 = 57°F. 11 am. dull sun, holes  
in fog, high cirrus. clear most after noon  
6:48 = 73°F fog coming in - 1/3 fog. calm
- 24 Aug. clear by 8:45 and the lots of high  
cirrus = 55°F. 12:56 few cirrus & bits of fog.  
= 63°F. 7:22 clear, bands of fog approaching near  
to W. = 60°F a nice sunny mild day.
- 25 Aug. 12:16 pm still fog & 63°F breezy. 2:03  
same blue, sun out breezy +, 67°F. 3:27 dull  
sun, fog back, light wind, 67°F in 'sun'. 6:49 =  
69°F in sun; clear, except fog to far W; breezes.
- 26 Aug Fog, 9:11 = 56°F windy. 10:49 a.m. dull  
sun. 12:36 few holes in fog breezy = 63°F. 2:20  
clear & windy = 63°F. 4:46 1/2 clear = 65° breezes.  
6:30 fog came, breezes = 61°F
- 27 Aug 8:46 am = 55°F; dew met at 7:30. slight  
breeze dark fog, 1 pm = 65°F dull sun. few  
holes in fog. 3:13 = 66°F; 90% clear & windy.  
6:41 bright tho hazy sun. = 65°F fog coming in, calm
- 28 Aug 8:28 = 60°F, 85% fog, calm. 4:42 clear &  
73°F, slight breeze. No sun in 8:30 - 9:30 + windy  
slow after noon till dawns in 6:20 67°F, fog back.  
7:21 = 65°F, sun low, clear & calm, a quiet day!
- 29 Aug 9: = 61°F 1/2 fog, calm; low fog at 7 am  
12 noon: 67°F clear, calm. = first monarch to 5!



Christman  
1991

Journal

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29 Aug, ~~del Norte St, Berkeley, Alameda Co, CA~~  
3:51 pm clear-calm;  $92^{\circ}\text{F}$  in sun. 6:46 =  $73^{\circ}$  same

30 Aug. Fog &  $60^{\circ}\text{F}$  at 8:16 am. 8:20 sun out - few  
hales in fog. 8:48 dense fog again. 1:02 =  $65^{\circ}\text{F}$   
clear-calm 6:09 clear, calm &  $77^{\circ}\text{F}$ .

31 Aug. 9 a.m. =  $58^{\circ}$   $\frac{1}{2}$  fog, clearing slight breeze  
9:56 just about clear, band of cirrus to W.

12:34 =  $66^{\circ}\text{F}$  1 Monarch over house to SW.

1 Sept fog till 8:30 am - warm day. quiet day.

2 Sept clear at 10:24 =  $71^{\circ}\text{F}$ ! no clouds.

11:27 see 1 Monarch to S below level of  
aasb. 1 pm =  $81^{\circ}\text{F}$  in shade, calm 3:50 =  $98^{\circ}\text{F}$

4:26 =  $96^{\circ}\text{F}$  same - 7:33 after sundown =  $69^{\circ}$

3 Sept 8:45 am low fog &  $58^{\circ}\text{F}$  calm. 10:10  
dull sun;  $61^{\circ}\text{F}$ . 10:28 same blue & sun.

11:16 clear &  $63^{\circ}$  faint breeze. 1:07 =  $65^{\circ}\text{F}$  calm.

1 Monarch to S at 11:30. 3:29 =  $70^{\circ}\text{F}$  fog fair W. <sup>calm</sup>

4:22 Fog in =  $84^{\circ}\text{F}$  same sun. 6:13 Sock in =  $60^{\circ}\text{F}$

4 Sept. 8:03 fog &  $55^{\circ}\text{F}$  10:44 clear &  $62^{\circ}\text{F}$  &

1 Monarch, below aasb level to SE. 11:20

1 Monarch over aasb from W over house to <sup>E</sup>

6:14 =  $73^{\circ}\text{F}$  in sun; calm, but bits of fog returning

5 Sept 8:21 =  $57^{\circ}\text{F}$ ; Fog. 10 am same dull sun

=  $61^{\circ}\text{F}$ . 11:20 =  $62^{\circ}\text{F}$   $\frac{1}{2}$  sun. 12:21 band of cirrus

to W. 1:08 1 Monarch over house to E. 4:21 clear

&  $85^{\circ}\text{F}$  in sun. 6:30 fog hales in, raining;  $63^{\circ}\text{F}$

6 Sept 8:38 am fog;  $58^{\circ}\text{F}$ . Four or 5 clusters

of white flowers appearing on Pittosporum

to NW of house. 10:42 periodic wind &  $61^{\circ}\text{F}$ .

12:43 still overcast & windy. On the news

at 11:40 - thunderstorms & lightning in the

Salinas Valley & about San Jose. 3:41 pm

windy, fog to N & bits of sun =  $69^{\circ}\text{F}$ . 6:16 fog, low

planes, again  $61^{\circ}\text{F}$  slight breeze. 1 Monarch <sup>over</sup>

7 Sept fog -  $59^{\circ}\text{F}$ . 3:28 -  $\frac{1}{4}$  clear breezes house



Christman  
1991

Journal

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8 Sept, Del Norte St., Berkeley, Alameda Co. California  
9:08 first sun thru fog - 59°F.

9 Sept dense high fog, wind; 8:20 - 57°F

8:36 sun out bright against dark sky with  
occ. brisk wind. 9 am - fog again dark.

11:30 its like a blustery winter day with  
out the wet - some sun & blue & 59°F.

10 Sept 8:04 am clear except fog far to W;  
53°F. Calm. 1:36 clear, 65°F. 6:pm very  
slight breeze, clear - 71°F in sun

11 Sept Fog 10:10 am - 59°F. 1:37 - 63°F, sun  
with bits of fog. 1 Monarch to SE below  
level of oak. 4:32 - 68°F, clear with few  
high thin cirrus. 6:40 complete fog - 57°F

12 Sept 7:30 52°F Fog. 10:38 hazy clear, 57°F  
with a few bits of fog. 12 pm 1 Monarch to SE.  
7 pm complete fog & 65°F. feels cold & 1°

13 Sept Fog; 9 am - 53°F 9:35 - 54°F 1°  
Monarch to SE over oak - very slow &  
feeble flight. 10:47 - 58°F fog no sun yet.  
12:34 pm Fog & 60°F. 3 - 65°F Fog. 6:40 pm  
still fog - 57°F very slight breeze. no activity

14 Sept Fog; 9:31 am - 55°F. 12:06 the first  
bright tho diffuse sun - NW elm is an abso-  
lute riot of cadmium yellow with minor  
overtones of green & tan. 12:26 lots of blue  
now tho fog still lingers. 12:31 2 Monarchs  
from NW flew together over oak; 1 to SE, other  
landed in Pittos. 3:20 1 Monarch to S. 3:43 fog  
back, bright = 68°F 6:50 = fog & 54°F

15 Sept 9:15 am - 55°F sun, fog clearing, calm  
clear most of day. 6:56 pm sun near horizon,  
= 59°F, calm, wispy fog coming in.

16 Sept Fog, 8:30 - 55°F. 9:48 dull sun.  
10:07 almost clear; 58°F. Filled D-K



Christman  
1991

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## Journal

16 Sept, del Norte St. Berkeley, Alameda Co., Calif  
1:14 - 66°F hazy clear, 1 Monarch circling  
up overhead. 3:06 1 Monarch over house  
from NW. 3:36 - 79°F another Monarch to SE.

17 Sept low fog & 54°F at 8:24 am. can  
barely see up st cedar. 9:02 of a blue  
holes in fog & first bright sun. 9:15 hazy  
clear! Doves, towhees & house finches  
actively feeding. Steller jays very  
prominent now; scrubs about but  
not dominant. 9:39 1 Monarch over  
house to E = 58°F sunny. 10:14 1  
Monarch over house to W! - 61°F. 10:17  
1 Monarch W to E over house! 10:18 another  
Monarch to SE mid oak height 10:27 1  
Monarch high over house to E. 10:28  
Then 2 high to S. 10:32 1 over house to  
SW. 10:36 1 over house to oak where  
it alighted 8' from top in SW. = 61°F.  
very calm. 1:12 - 69°F - 1 low to SE, M. i.e.  
1:18 1 Monarch SE high. occ. cirrus in pm.  
7:37 pm fog back - 56°F.

18 Sept Fog. 9 am = 55°F some sun peek holes  
in fog 9:14 = 56°F 1 Monarch N to S. 9:50 =  
58°F hazy clear. A Fox Sq in ivy near top of  
pale arbutus st where a nest was being  
built by Sq. that fell & was killed by car  
last spring. 10:36 1 Monarch low (50') to N.  
12:12 = 60°F 1 Monarch at white flower of  
Pittos. ; 1 to S over street. 1:17 clear & 63°F.  
1:27 1 Monarch E over house - high & fast.  
7:17 Fog back, 57°F J's making noise to NW.

19 Sept Fog, 8:44 am = 54°F. 1:07 = 62° still solid fog  
3:20 Fog & 61°F, slight breeze, 5:39 Fog & 57°F 00 am  
20 Sept 8:45 = 55°F Fog. 9:27 Fox Sq feeding near



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1991

Journal

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20 Sept, del Norte St, Berkeley, Alameda Co, CA  
6:22<sup>pm</sup> = 56°F no sun again! Solid Fog

21 Sept Fog. 9am = 58°F calm; same diffuse  
sun. 9:18 bright sun from SE. 9:31 almost  
clear, 59°F. 10:27 = 61°F 1 Monarch high  
W to E over house, direct rather fast.  
10:30 another Monarch from N, lazy flight-  
glide, turned E over house. 10:40 1 Monarch  
SW over oak, E over house, high strong.  
10:44 1 Monarch from N over oak then to SW. 62°F  
10:55 another Monarch over house. 11:05, 1 law  
about oak to SW. 11:16 1 Monarch to S over oak.  
11:43 1 Monarch over house to SW 12:04 1 Monarch  
N to S. over oak 12:14 1 Monarch NW to SE  
eye level, slow. 12:21 1 law & first N to SE.  
12:23 another up & over house to E. 12:24  
1 over house to W; another NW over house to E.  
Then a high 1 to SE. 12:29 1 Monarch low  
up over house to SE, = 63°F calm.

12:42 another up over house to SE. 4:04  
= 80°F in sun, Fog returning. 4:36 1 Monarch  
NW to E over house; breezy, 1/2 fog & 68°F.  
6:53 pm thin patchy fog; 58°F calm no birds.

22 Sept Fog to 9:30 am clear to 4:30 - then fog<sup>2</sup>

23 Sept 55°F at 8:15 am Fog is rather low. 8:30  
- fog even lower & thicker now. 9:12 a few holes in  
Fog, no sun yet. 9:22 sun out! 9:41 breezy clear.  
10:38 first Monarch NW to SE over house,  
= 61°F. 10:46 another Monarch over house.  
11:17 1 Monarch NW over house to SE. 11:19 1 Monarch  
over house to SE, 63°F. 11:48 am = 64°F 1 Monarch  
over house to SE 12:37 1 Monarch sailing S. Then  
another high overhead. 3:27 2 more 75°F must  
7:21 clear, but fog line to W, calm = 58°F dark.  
24 Sept clear 49°F at 7 am & full moon to W



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1991

Journal

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24 Sept, Del Norte, Berkeley, Alameda Co., Calif.

9:11 bright clear, 59°F 1 Monarch N to S.  
9:29 am clear, 1 N to S over ab - Monarch.  
9:52 = 63°F another Monarch to SE 10:15  
= 64°F 1 Monarch high W to E over house.  
10:18 1 Monarch, low N to S. 10:23 2 Monarchs  
over elm NE to W, 10:35 1 Monarch S to  
N over elms! 10:39 1 Monarch high NW to SE.  
10:56 am = 67°F 1 Monarch over house to E.  
7:40 pm dark, clear - 59°F Nice clear day.

25 Sept Fog. at 8:39 = 55°F 10:10 am = 59°F

1 Monarch over house to NW, slow flight  
10:14 dull sun. 11:03 a.m. fog gone, no sun  
broken cover of cumulus - stratus  
clouds = 62°F 1 Monarch to W; slight  
breeze. 11:06 3 Monarchs to SW, gusts of  
wind with yellow leaves falling! These  
clouds must be from S - Baja, etc.  
11:19 2 more Monarchs to S, SE. 12:03 heavier  
~~and~~ cumulus getting darker with first big  
drops of rain = 62°F. 12:29 Only a few  
drops earlier, getting darker. 1 Monarch to N  
= 70°F! 12:31 another Monarch to N. where  
there is a patch of mae. Do they orient  
by the sun, also wind from SW. 1:13 1  
Monarch N, then W. 1:36 wind from N = 70°F  
1:37 1 Monarch to N. 1:49 pm windy, first claps of  
thunder 1:53 big drops falling. More thunder.  
1 Monarch to S getting darker. Fairly heavy  
shower & much thunder at 2 pm. 3 - calm  
everything wet with clouds W & N more  
open to SW. 1 Monarch to SE Lots of leaves fell  
off of NW elm today - many more have limbs now  
evident 5:56 sunny = 61°F were cumulus, now  
looks like fog returning.



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26 Sept, del Norte St, Berkeley, Alameda Co CA

8:26 am = 55°F Fog. 11:20 = 59°F FOG

1:44 = 61°F fog & 1 Monarch, slow & low

from NW to SE. Same sun at 5 PM. 7:30 58°F Fog

27 Sept Fog 8:31 = 55°F. 10:47 = 59°F. 12:39

= 65°F calm, few patches of blue in the fog

& 1 Monarch E over house - high. 12:53 pm

sunny. 1 Monarch <sup>to</sup> over oak. 12:55 1 Monarch

fast to S at eye level. a few breezes. 1:04 1

Monarch drifting high over elms to SE.

1:24 2 to S 1:28 1/2 blue sky sunny, 66°F

calm & 1 Monarch to S. 1:33 1 over house to E

4:45 clear hit haze, calm & 77°F

28 Sept 9:12 Fog & first sun. = 59°F. 9:25

broken fog, sun, 59°F and first Monarch

over house to SE - toward the sun.

10:04 = 60°F 1 Monarch to SE over house

- slowly. 10:10 another to SE. 10:27 1 Monarch SE

circus from NE. 10:40 3 Monarchs NE to SW

over oak, and 1 sunning on oak - N side

11:03 = 62°F 2 Monarchs high over elms

12:10 = 65°F 1 Monarch E high over elms

& rather fast. 12:16 another gliding S over elms

12:26 2 over oak to S. 2:44 1 fast to SE = 67°F

almost dull sun more dots of cirrus (from

S ?) 3:35 clear - more cirrus from SW = 75°F

29 Sept Fog cleared by 8 am. 9:18 = 59°F bright,

clear & calm. 9:22 1 Monarch circling then to S.

9:26 2 to NE, 1 M. from N to perch near top of oak.

9:29 1 M. over house to oak then. 3:56 clear, calm &

94°F. 3:59 1 fast & up over house to E = Mon.

4:06 1 Mon. to SW below level of oak. 4:12 1 Mon.

rather slowly to SE over house. 4:14 1 Mon.

sailing fast SE to NW high ! 6:37 clear & 62° almost

sundown. 7 pm almost dark. a quiet "October" day



Christman  
1991

# Journal

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30 Sept. all state st. Berkeley, Alameda Co. California  
low fog at 7; 8:33 higher, fog, 54°F  
9:58 still fog, darker & 55°F. 11:47 am  
= 59°F FOG. 12:5 = 63°F, fog & first Monarch  
high & fast over oak to S. 1:26 1 Monarch  
to NW over hills, followed by 2 more!  
1:32 1 Monarch over house to SE. 1:34 first  
dull sun. 1:44 2 M. to SE over oak. Nice  
sun, holes in fog & 65°F. 1:46 1 high sailing W.  
1:47 2 to SE over height, then 1 to N. Then 2  
from E over oak & down - Perhaps it's all  
2 or 3 just flying randomly about my  
attractive house! 2:05 more sun. Have  
been 8+ in all directions, same high, same  
low - no pattern. 4 pm = 65°F a sheet & band  
of cirrus from W; then fog in quick.  
1 Oct 8 am fog; 9 am = holes in fog with  
makewind clouds & 59°F and a long  
saw of geese to NW! (sp.?) 9:44  
first dull sun. 9:58 fog breaking up & 59°F  
10:45 = 60°F First Monarch to SE. Clouds  
to E. 11:15 = 61°F 2 more M. hazy clear. a  
very soft day. 11:23 + 2 more Mon. + 1 high  
to SE slow flight = 61°F. 1:03 = 64°F after  
M. 2:08 = 67°F clear & bright. 6:03 clear = 67°F  
6:07 1 Mon = 69°F to SE  
2 Oct low fog, 8:30 = 55°F 8:57 Fox G. carry-  
ing acorn from oak up line & into Pittos.  
Go - same storage. 9:12 am dull sun from E.  
= 58°F. 9:14 same blue overhead. 9:33 = 58°F  
hazy clear, first Monarch 5 high, slow.  
9:45 am = 2 more Mon. to S. 10:08 several  
more Mon. = 60°F. 10:47 am a few more M. high  
to S.; 1 up & landed on white flower of Pittos.  
11:10 several more times Fox G. - across to Pitt.



Christman  
1991

Journal

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2 Oct., dd Route 91, Berkeley, Alameda Co., CA  
11:15 seems to be after more than  
today than previously. 12:14 2 to N.  
1:30 bright clear, 67°F. 6:28 pm 64°F clear  
calm, almost sundown.

3 Oct hazy clear at 7am 8:30 clear & 53°F  
down windshield for first time this fall.  
8:35 am first Monarch over house to SW! 9:06  
= 59°F 1 Monarch to SE over elms. 9:58 2  
Monarchs chasing each other about oak. So  
far this am have seen more in 1 hour  
than any previous 1 hr. - 15 at 20! 10:24  
= 65°F this in shade - probably much warmer  
in exposed areas. Calm. 10:50 Again 2 chasing  
over the oak, 3:23 = 84°F. 4:12 = 97°F in Sun.  
5:58 = 71°F calm, no fog; 1 Monarch.

4 Oct 6:45 am heavy low fog (window-oak)  
8:43 = 54°F. 11:47 60°F Out most of am  
11:47 1 Monarch over oak to SW still fog.  
cleared 12:30 ± 3:07 = 65°F calm. Fog hangs  
to W, etc. 4:13 = 64°F 2 high to SE.

5 Oct Fog 11:24 am 60°F first Monarch  
to NE 11:38 first dull sun. 6:31 just about  
sundown. Some cirrus this afternoon, not  
a warm day = 59°F none & 1 Monarch  
high to SE.

6 Oct Fog to 9 am 10 am clear & calm at 58°F  
pm = clear with cirrus; 6 pm 66°F calm.

7 Oct low fog; 8:40 am = 56°F. 9:20 am dull sun.  
9:53 holes in fog, 59°F, sun & first Monarch  
to S. 9:58 1 Mon. to N & then to white flower  
in top of Pittos. 10:01 2 Mon. to SE. 11:17 1 Mon.  
from SE over house to W.

8 Oct fog to 9 am = clear calm to Palo Alto

9 Oct clear home & very smoggy at 10:45



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1991

Journal

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10 Oct, ~~Belknap St., Berkeley, Alameda Co., Cal~~  
when I returned from P.A. 5:47. 73°F

1 Monarch to N. clear - haze - smog.

11 Oct cloudy around horizon, clear  
over head 8:56 = 62°F calm. 1 Monarch  
over house to land on ash. 8:59 3 M.  
chant and slow, fluttery flight. 2:34 p  
'clear' with cirrus & stratus = 78°F.

12 Oct 9:36 = 57°F. Fog till 9± Then haze  
clear. 9:44 am first Monarch to S. 10:18 a.m.

a fair number of Monarchs this a.m.

5:41 clear, calm no activity; quiet day.

13 Oct 7am = fog; clear by 8:30. 9:15 = 58°F.

clear, warm all day

14 Oct clear; 9:16 = 60°F, calm. 9:40 a  
number of Monarchs to S; 1 sunning on  
ash & 2 'pairs' chasing over trees.  
The D-4 feeder has been empty for 2  
days - filled up at 9:30 a.m. no H. Finches  
yet. 1:50 a goodly number of Monarchs  
flying past. 2:45 clear 71°F.

15 Oct. 9:45 am = 57°F calm. Fog at 5 am &  
clear by 7:30 - 1 Monarch fly & perching about  
N. elm. 9:50 in past 5 minutes 5 to S & 1 to N.  
mass high. 10:40 am = 61°F clear with smog  
and a line of cirrus (?) clouds off to SW  
a lot of Monarchs this a.m. Thus far I have  
seen no birds at top 1. 11:08 a band of  
cirrus aloft overhead S to W. 11:30  
a lot of Monarchs this a.m. - 20 to 30!

12:20 = 62°F cool day. 1:05 = 65°F more cirrus  
from S-SW. 5:51 cirrus to SW & 62°F

16 Oct. high fog 9:39 am = 58°F. calm 9:49 dull  
sun, a few small holes in fog. 9:54 2 Monarchs



Christman  
1991

Journal

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16 Oct, del Norte St, Berkeley, Alameda Co, CA

10:10 am just about 'clear' with a few  
cirrus from S; = 57°F. For some reason  
today feels like the first day of fall  
or a winter day; 59°F now. 3:17 = 68°F  
in sun, fewer cirrus, calm. 6:15 = 67°F <sup>clear</sup> calm  
6:18 Sun set clear calm few small cirrus.

17 Oct Fog 8:53 = 55°F. 10:57 am Fog & 60°F

11:11 2 Fox Sq. have been carrying actors  
from cab via line to Ft. Hos (on to  
big cab next door to N-?). 11:13 1 Monarch  
high to E - occasional breezes. 1:40 partially  
clear, breezy & 60°F. 6:29 = 56° clear calm.

18 Oct. 8:31 am. = 55°F fairly low fog, calm

9:17 = 57°F first Monarch high to S

10:10 dull sun. 10:34 patches of blue. 4:18

pm = 90°F in sun, clear & calm 4:48 1

Monarch to N. fast over trees. 5:49 =

69°F clear calm quiet day

19 Oct 9:53 am clear all am = 59°F.

10:51 = 64°F outside; 63° inside. 7 pm = 66°F

crickets !! last night & tonight what Tex.

20 Oct clear, 9:55 = 68°F calm 10:51 now

quite a stiff breeze! The wind is appar-  
ently from the NE, up to 90's

THE GREAT EAST BAY FIRESTORM

12 midnight = calm & 67°F.

21 Oct 7:30 am clear, calm & 55°F. Fog in

by 8:30 - 9. 9:39 partial clearing & 58°F.

1:19 part fog, hazy & now W. wind fog

hazy at 4 pm 6:34 heavy fog & 59°F.

22 Oct complete overcast of cold front

clouds with seeds going N. 9:14 = 57°F

11:15 slight breeze, still overcast & 59°F



Christman  
1991

Journal

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22 Oct, Adirado St., Berkeley, Alameda Co Calif  
almost feels like rain. 12:32 opening  
up a bit, no blue, clouds still to N. = 60°F  
2 Fax Sq. continue to carry off across  
from cab, up line to Pittos & N.

23 Oct. Clear; 9:22 = 49°F ! Last night  
on news - snow N Oregon - Washington  
- so winter up the coast - rain due  
here Saturday. 11:11 am = 55°F 12:41 = 58°F  
2:47 occ. breezes & 63°F sparkling clear.  
6:26 clear calm & 57°F.

24 Oct clear full moon to W. & 42°F at 7:50  
am few cirrus to WNW 9am = 48°F band  
of Mahanal clouds S to N. cool calm.  
10am = 51°F no monarchs yet clear, but  
few clouds of cirrus. 1pm clear, calm  
& 59°F few monarchs. 2:44 new breeze  
62°F & cirrus overhead, stratus to W. 6:21  
54°F complete stratus cover & calm.

7 light rain at 9:30 pm = .05"

25 Oct everything wet, 9:23 = 53°F cloudy.  
what a change - all kinds of bird activi-  
ty. 10:58 am = 59°F 1 monarch about cab in  
slow flight. 2:45 = 57°F sprinkling calm.  
3:41 no rain 57°. 5:39 = 56°F occ wind & showers.  
5:49 getting dark, heavy sprinkle straight down.  
6:04 few doves & few bees feeding in rain.

26 Oct. rain all night to 9 am = RAIN FALL =  
1.74 ! & 54°F. to sprinkles at 8:30 am  
10:35 no rain, few clumps of blue off to far W.  
11:28 1/3 W aspect clear. no rain. 11:45 first  
sun here = 56°F clearing fast. 11:57 windy  
1:08 clouds back & 57°. 2pm windy from NW.  
4:30 = 65° only few fluffy cumulus, clearing breezes.



Hustman  
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Journal

242

26 Oct., del Norte St., Berkeley, Alameda Co., CA  
6:30 clear & 52°F calm

27 Oct. clear & calm 7:30 am = 45°F, at 12:20  
= 55°F (old time) 5:42 clear, calm 57°F

28 Oct 8:03 PST am = 49°F clear. 8:54 =  
= 52°F breezy. 9:21 am irregular chunks  
of cirrus now overhead from NW  
11:am clouds & haze to S. 12:13 windy & 61°F  
first Manarche seen today high to S.  
12:28 lot of cirrus above horizon to W. <sup>still</sup> windy  
& 62°F. 2:42 = 77°F in sun; bands of thin cirrus  
N to S. 4:07 pm = 67°F feathery cirrus high SW &  
haze to W. calm.

29 Oct. clear except cumulus like clouds over  
hills, etc. 8:47 am = 55°F calm. 9:46 occ.  
breezes with small fluffy cumuli going  
S. otherwise bright sun. 10:43 = 56°F 1 m-  
anarch fast to NE. 3 pm sparkling calm  
81°F in sun. a few cumulus.

30 Oct sparkling clear occ. wind. 8:14 am  
= 48°F. 12 noon = 59°F clear, windy cool.

31 Oct. 40°F at 7 am 45° at 8:07 am calm  
clear 9 am the first bird activity  
on landing, 2 towhees, since a  
sharp-shinned hawk in elm at 8:10  
- 8:13. Except 1 robin in elm bright.  
9:04 calm bright sun & 51° in shade  
with first Manarch. 1:30 very little  
bird activity to day. A S-sharp in elm  
at 8 am & a quick lab at another (?) to  
NE 10:30

1 Nov clear, calm; 8:08 = 48°F, 10:32 am = 57°

Since the rain new growth & white flowers on  
Pittos. And on these clear days less bird activity.



Christman  
1991

Journal

243

1 Nov. ~~El Norte St., Berkeley, Alameda Co., CA~~  
12:17 = 63° fair number of Monarchs.

2 Nov. 46° at 7:30. 9 = 53° F clear calm  
9:21 am = 54° in shade - first monarch.

11 am = 60° filling cirrus to WNW.

4 Nov. clear, calm 8:27 am = 49° F 9 am =  
52° F a band of cirrus, S to N off to W  
slowly approaching. 9:26 = 55° F first  
monarch over house - The temperatures  
recorded here are in the shade of  
W. exposure so in mornings they  
are significant cooler than exposed  
situations which the sun reaches  
early. 10:46 = 60° Lots of Monarchs  
about clusters of white flowers / Pittos.  
1:21 pm = 66° F clear & few streamers of  
cirrus.

5 Nov. 8:09 clear, calm, 50° F.

6 Nov. 9:28 am = 61° F first monarch; clear  
calm and first am (7 am, i.e.) with no condensation on car. 4:18 same; 77° F with  
feathery cirrus to W.

7 Nov 8 am clear calm 58° F. no wind activity  
3 = 77° F almost complete stratus overcast  
from lots of cirrus; no sun. muggys.

8 Nov 8:47 am 55° F fog with dew drops  
falling, heavy calm. 2:40 fog thick & 58° Fog  
off & on before some pluvials with scattered  
clouds.

9 Nov. Fog. 9:40 - 57° F. start clearing at noon,  
12:48 first Monarchs = 60° F 1/2 ± fog, sunny  
the haze. 3:53 foggy clear; 71° F in sun.

10 Nov. clear, heavy dew; 2:54 = 71° F with  
lots of cirrus coming in.



11 Nov. ~~all~~ ~~hazy~~ ~~clear~~, Berkeley, Alameda Co., Calif.  
clear, heavy dew, calu 9:18 = 57° out at  
7:20 am. 11:01 = 63°F First Monarch.

3:50 pm clear, calm & 72° few if anything  
except dunes in to feed, as seen about

12 Nov clear & 48°F at 6:37 am; 8:20 = 53°F  
clear but hazy with thin cirrus, sun.

11:40 = 64°F hazy clear only 2 Monarchs  
so far this am.

13 Nov 9:45 bands of cirrus overcast to NE  
calm & 54°F. dew at 7 PM. 12:27 slight  
breeze & 65°F bright clear. Monarchs on  
Pittosporum flowers.

14 Nov 6:30 am = 47°F clear, windy during  
night & 8:04 same°; periodic wind.

15 Nov clear & windy; 50°F at 8:15. 8:23 Six  
dark birds flying N in formation - have  
seen these before at this time. Now I  
think they are cormorants - to feed  
Lake?

16 Nov. 7:20 = 40°F scattered cumulus. 9:25  
am 48°F clear with banks of clouds to S  
& W. calm. 11:03 = 56° calm First Monarch.  
11:50 now the flag down the street indic-  
ates a breeze from the south. 1:58  
= 61°F & high flying cirrus from S. & several  
Monarchs. 3:18 = 59°F ~~clear~~ complete cloud  
cover now, same heavy same lighter 5:05  
first shower of rain 6:13 sprinkles.

17 Nov light rain to 8:31 = RAINFALL = .34"  
9 am heavy down pour & 51°F noon =  
clear & RAINFALL = .38" so .72". 2:20 = 59°F

18 Nov. 7:30 am = 45°F clear; 8:39 = 50°F calm clear  
cirrus. 10:27 = 54° First Monarch at Pittos flowers.



Christman  
1991

# Journal

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18 Nov. Del Norte St., Berkeley, Alameda Co., California

2:47 = 76°F sparklingly clear, calm

4:29 = dawn to 57°F with cirrus & stratus  
with mackerel, now clear bank of clouds  
to W. mainly a clear day with clouds W-NW

20 Nov 8:20 = 57°, calm complete overcast;  
RAINFALL .04" last night. none now.

9:40 dull sun; some openness since 8:45.

" = 57° 4:51 = 57° dull overcast.

21 Nov clear cool calm.

22 Nov calm clear, but for thin cirrus, 8:46  
= 46°F 3:56 hazy clear lots of filmy high cirrus

23 Nov clear at 7:50 am = 50°F 9 am = hazy  
clear, E. wind, a few cirrus = 53°F 10:20 = 56°  
with bank of cirrus to W approaching; breezy  
11:03 large diffuse 'feathers' of cirrus W to E  
now overhead, still breezy. 11:26 Fox spined  
from oak on line to Pittos & on. This means  
it carried apple from tree to line to  
oak to get to this utility. I don't think  
I ever saw this before! 11:57 = 59°F  
first monarch; to N low. Not many seen  
of the past week. 4:07 rather calm, 'clear' but  
hazy with ill-famed cirrus. Flag down St = <sup>from</sup> SW.

24 Nov calm 9:32 = 52° ± hazy cirrus S to N.  
10 am sun out. A quiet day watching football!

25 Nov 8:30 = 47°F clear, calm few cirrus.

when just light enough to see towhees, gold-  
en crests (& ? white-throated S.) in, no  
feed out (ran out at mare at 8 am) - there  
was much chasing - in form of towhees,  
head down charging others. 10:15 only  
bird in last 1½ hr. is 1 dove in elm. Bank of  
hazy cirrus off to W.



Christman  
1991

Journal

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25 Nov., ~~del Norte St.~~ Berkeley, Alameda Co., CA 1:30  
10:45 1 Monarch on Pittos flowers; 1 other  
Monarch at same flowers. 1:45 1 to E  
overhouse. 1:52 another to E. 2:16 1 to S at  
eye level - fast. = 64°F.

26 Nov. Hazy clear high cirrus. 10:52 = 56°F  
calm. 2:03 2 'fighting' high near top NW elm.  
2:30 caught Fox Sq. in trap ? the big aggressive  
♂ to J. H. Verb. 4pm thin streamers - cirrus  
from SW = 60°F. calm. Wind activity  
4:54 high cirrus = 56° a few dares!

27 Nov 7:30 = 46°F clear, calm, 8:46 = 49°F  
TRACE RAIN at 3 am, big splatters  
things wet in a.m. 10:03 sparkling clear  
& calm & 52°F. to Palo Alto

29 Nov back at 10:50 am clear & windy  
54°F feels COLD! 2:49 WIND & 6°F. 3:57 in  
to feed are 9 dares, 1 scrub J., 1 G-C Sparrow  
& up to 3 towhees wind & 55°F. 4:01 Fox Sq  
with small green apple upline to Pittos. This  
is the ♂

30 Nov clear, cold, WIND 10:11 = 48°F raw  
few high cirrus tow. 1:55 = 60°F still clear  
& acc. wind with more cirrus going S. and  
a very slow day for birds.

1 Dec hazy cirrus clear, little wind. mild.

2 Dec 42° at 7:45 am. Clear with hazy cirrus -  
calm 9:40 am = 48°F. 1 pm = 59°F clear hazy cirrus  
Caught Fox Sq. & released into J. Nible park  
4/3 mi to NW. This should be the last apr.  
which has been about for many months.

2:41 There is another Fox Sq. here - "furrie  
ears"

3 Dec 8:20 = 48°F calm clear 1:53 = 61°F 1 Monarch  
at Pittos flowers.



Christman  
1991

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## Journal

34 Dec, El Norte St., Berkeley, CA  
9 am = 45°F clear, calm. 10:18 a band of haze-cirrus for an horizon to W. (at top of utility pole at circle). a storm system maybe in this weekend. 3:30 another Fox Sq. to Park!

5 Dec calm, clear, 8 am = 42°F, 9:40 = 45°F.

12:11 same; = 54°F One Fox Sq is back!

12:29 Monarch SW over oak. 12:42 another Monarch, to SE low. a band of haze-cirrus on W horizon below level of pole. 1:15 cirrus now above pole. 2:35 cirrus now nearly overhead, still calm & 64°F.

6 Dec clear & 44°F at 8:37 am with assorted cirrus & cumulus clouds, ¼ sky. between 10 & 10:30 a low stratus-like fog in from S at 11:15 am complete overcast 54°F.

3:48 = 55° dull overcast. 4:01 H. Finches, doves, towhees & chickadees (1 G-c sparrow) in to feed - going to rain soon.

7 Dec 9:37 am = 48°F calm clearing to W & overcast to E. light RAINFALL = .10" last night.

10:15 sun out first time. 1:39 pm clear, few cumulus to SW, 57°F see breezes. 2:57 = 59°F; several cumulus clouds from N to S.

9 Dec clear, lots of wind during night. 9:07 calm & 52°F. 11 am now 2 Fox Sq. Pittos to landing, other thru oak so they "bounced" back. 12:09 first Monarch, to S below oak level.

10 Dec 8:07 = 40°F clear with few wispy cirrus no dew, calm. 9:14 Fox Sq. carrying an apple from oak up line to Pittos & on to N thru trees. 10:52 am clear & 52° 11:52 = 55° first Monarch 12:39 = 57° heavy cirrus to W (cedar hi). 12:51 a Monarch over oak, then N. 2:21 = 54° dull light no shadows.



Christman  
1991

Journal

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10 Dec., del Norte St., Berkeley, Alameda Co., Calif  
3:06 sun out = 61°F in sun.

11 Dec. 8:26 = 40°F clear, calm, no dew. 11:48  
am = 54°F long hands - cirrus tow (anecdotal)  
1:04 = 55°F clear calm. 2:16 just moon high  
over the house hardly any bird activity in  
these high pressure days

12 Dec clear, calm 38°F 8 am. 9:25 so far  
2 Fox Sq about this a.m. & 2 apples about  
north. 10:31 = 47°F.

13 Dec 40°F at 8:19 am clear & calm. 11:30  
caught a Fox Sq. - a ~~fox~~ cat? - this time  
it went to the tilled native area!

12:09 = 55°F. 1:31 slightly windy & 58°F.  
3 pm in sun = 67°F breezy. 3:44 magne cirrus  
far tow. by flag down st. which is low & in  
a protected area to SE waves not  
straight - NW - N winds. pressure system  
is changing. 5:42 just dark - 51°F

14 Dec 8:58 = 39°F hazy clear with cirrus  
and fog over hills & w. calm. 9:06 Fox  
Sq. & apple up line into Pittos, etc. 9:51 = 43°F  
indistinct shadows; more hazy cirrus. 11:37  
= 47°F denser cirrus overcast, from S. 3 pm  
cirrus haze 55°F. 3:56 = 50°F new stratus in  
from SW. calm.

15 Dec clear, calm cold 11:30 = 50°F 4:09 = 54°F,  
since 2+ cirrus in, with occ breezes. cold day.

16 Dec. assorted clouds, mainly cumulo - stratus  
8:54 = 41°F. 9:18 two Fox Sq. about! 9:43 another  
Fox Sq. smaller, came up drain pipe - so 3 now.  
2:08 = 55°F still scattered clouds, periodic sun.  
4:42 1/5 sky, rest cumulo stratus = 47°F.

17 Dec Miss clouds 8:15 = 42°F. 10 am = 49°F cumulus  
on horizon



Christman  
1991

Journal

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17 Dec., Ad Nates St., Berkeley, Alameda Co., Calif.  
1:14 new monstrosas overcast & 49° -  
will it rain? 1:30 first light rain 2:11 -  
heavier rain straight down & 49° towhees  
& chibadees feeding; doves in w. elm  
2:50 rain has stopped; getting brighter. 3:51  
rain stopped still, overcast - I caught a  
Fox Sq. This I went to the Kensington shopping  
area - 1 mi. 4:13 Fox Sq. up line with  
apple (via E. part of cab & line - another)!  
into Pittos. So by theory 2 Fox Sq. left  
which ones - hope its the big ♂ who  
jumps up on D - 4 to gabble seeds -  
I have to open the window & clap  
to make him go down line & into  
Pittos. 4:16 = 50°F. 6 pm = 52°F quiet, dark  
light rain during night

18 Dec 9:51 = 53°F only partly cloudy now  
overcast at 7:30 am heavy & big shower,  
at 6:30 Since yesterday RAINFALL = .47".  
The smaller younger Fox Sq. up claim at  
8 am. at 10 The man - fuzzy eared ad  
up line from cab (think its a ♀ - less  
aggressive) and its passing the right  
front part. 10 ± to 10:52 bright sun to SE to  
SW; new cumulus, etc over much of NW-N.  
Noon - practically clear, but a line of inter-  
mittently deactivating thunderheads building WSW  
to NW. still calm & 55°F. 12:54 now 90%  
cloud cover from SE starts 2:17 now almost  
clear, except huge build up of clouds far to W -  
taming = 56°F. Yesterday I put out on  
the landing a hen's egg, one that has  
been in the "frig." for over a month!



Christman  
1991

Journal

250

18 Dec., del Norte St., Berkeley, Alameda Co. CA  
2:46 a Fox Sq. up line to Pittos & N with  
another apple - does it favor front  
faat.

19 Dec 39°F at 8:25 am clear & calm. 8:35  
a new small Fox Sq. in aab, then line  
& jumped into Pittos 8' from aab; not the  
usual short jump where Pittos is adjacent  
to the line - this new to area! This  
makes 2 new smaller (i.e. no adult  
size) Is this fall dispersal? 9:33 = 42°F  
This is a high pressure regime. No doves  
in at dawn as early in week - did the  
hawk scare them off. However - I  
put food out at 7:15 before going out  
for coffee & most now gone! So  
far no doves about, several treeees  
about & the chickadees - minimal  
"bird activity." 10:33 45°F outside Fox  
Sq. sunning for several minutes on line  
adjacent to Pittos. practically motionless.

10:57 a gust of wind! 47°F 1:03 windy,  
flag at Nature Co. show NW wind; 53°F  
3:34 - clear & calm 61°F! (in sun).

20 Dec clear, same wind 8:37 = 39°F. Noon,  
50°F after cirrus low & occ. wind! 4:34 hazy  
to W - few cirrus, otherwise clear calm, 50°F.  
relatively little bird activity; doves in at 4p.

21 Dec wind all night, heavy mists 9:07 = 44°F  
hazy cirrus overhead & stratus to W. 10:35 =  
48°F outside still windy & cloudy. NE wind

12:30 = 54°F now general overcast. wind has  
shifted to SW, 2:50 = 55°F cirrus-stratus overcast  
calm. dull sun. 3:50 = 52°F darker stratus



Christman  
1991

Journal

251

22 Dec, del Norte St., Berkeley, Alameda Co., Calif.  
scattered stratus calms; = 47°F

23 Dec 8:37 = 41°F clear & calm. This last  
melt saw last leaves on Linden Tree  
& now apple is losing leaves & turning  
yellow. No leaves on elms on this  
st, however leaves on other streets.

24 Dec 7am = 39° clear & calm. 8:29 = 41°F  
9:18 = 45°F 1 Fox Sq. on landing, 1 in elms  
up st. & 1 up line from cab - so 3 !.  
10:56 = 50°F same, but cirrus to far W.

26 Dec. du Palto a few cirrus, mainly  
stratocumulus all day mainly calm,  
periodic sun. Clouds from S. here by  
10:30 am. 3:20 an extensive storm is due  
in this evening. Now lots of bird activity:  
Townsend Warbl. in cab, several chickadees,  
tawhees, 1 Jay, 2 H. Finches & 6+ doves.  
Can they anticipate a storm?

27 Dec overcast, open partially at 8am ± now  
lower & darker, a few breezes 10:08 = 59°F  
11:34 = 60°F gusts of wind, dull overcast, can see  
details of clouds. 12:56 the first fine mist of  
a rain. 1:34 still no rain. 1:52 56°, calm; even  
duller sky no detail. 2:19 light rain 2:22 heavier  
rain - no bird activity. 2:35 = 53° rain  
straight down, so far rather light. Can see  
clouds go by. 3:20 du: H. Finches (3+), chickadees,  
tawhees, doves (11+) 4:09 all of the above  
flew off suddenly; now they are back! Towhees  
are water-proof! It's getting darker & the  
landing puddles more extensive. The  
late afternoon feeding orgg' has started  
4:53 almost dark, rain - 3 tawhees about! = 49°F



Christman  
1991-92

Journal

252

28 Dec., del Norte St, Berkeley, Alameda Co, California  
a downpour about 4 a.m. Broken  
clouds after 7:30 am 9:20 = 47°F RAIN  
FALL = .98" relatively calm 9:31 a brief  
shower. 10:21 occasional gusty winds,  
& = 50°F outside. 10:34 dark clouds & wind,  
10:39 another shower. 10:43 for first time  
this a.m. solid dark overcast. strong  
gusts of wind. 10:56 some wind to SW - things  
wet & dripping. 12:31 another shower -  
brief & heavy. 5:58 periodic showers = 49°F  
1 Fax Sq to Kensington, rain at night

29 Dec rain at 7; clearing 9:43 = 47°F  
RAINFALL since yesterday - 1.34" 11:06 cloud  
cover complete = 50°F. Moon still overcast,  
51°F.

30 Dec 9 = 47°F scattered clouds. 11:30 = 53°F  
same blue, but dull, little sun & clouds  
drifting N. Another storm due on Wednesday  
2:40 now complete cloud cover, cold & 55°F  
31 Dec 7:30 = 40°F, clear, calm. 8:55 first  
vague wind to SW - overcast & slight breeze.  
10 am = 49°F cirrus off to N, sunny & calm now  
10:42 fuzzy long streamers of stratus to N  
= 50°F, 11:35 52°F & 50± wind & stratus, slight  
breeze. 3:18 = 62°F in sun, clear, 1 feathery cirrus  
& occ. wind.

1 Jan. clear windy 47°F at 9 am. 10 + haze in W.  
11:49 am clear, 53°F, S to N cirrus off to W above  
pale, to top of cedar (far). a slight breeze.

2 Jan 9:26 = 45°F clear, windy; cirrus to W.  
11:30 same, a few more cirrus 50°F. 2:33 = 55°F  
same, more cirrus from S. 3:48 = 54°F stratus now  
moving in from S.



Christman  
1991

Journal  
RAINFALL - 1991

252 A

del Norte St. Berkeley, Alameda Co. Calif

Jan. 7 = .13  
9 = .34  
12 = T = 47  
Feb. 2 = 1.44  
12 = 1.13  
27 = .30  
28 = 1.04 = 3.91

Oct. 25 = .05  
26 = 1.74  
Nov = .72  
Dec 18 = .47  
28 = .98  
29 = 1.34

Mar. 1 = .23  
2 = .85  
3 = 1.51  
10 = .71  
12 = .10  
13 = .76  
14 = .08  
18 = .33  
19 = .89  
23 = .91  
24 = .64  
25 = .87  
27 = .37 — 8.25

Apr 1 = .07  
20 = .21  
21 = .25  
24 = .09 = .62

May 19 = .20  
30 = .12 = .32 } 1.06

June 27 = .12 = .12

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5.30"  
JF = 4.38  
A.M.J = 1.06  

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10.74  
8.25  

---

18.99"  
yr. total



Christman  
1992

Journal

253

- 3 Jan, ~~El Norte St, Berkeley, Alameda Co~~  
8 = 40°F a few cirrus overhead a heavy  
stratus to W (well above pale). 1:04  
The stratus over to NE now clear, calm  
56°F, sunny. 2:33 heavy cirrus to W. 3:48  
= 59° nearly overcast, stratus, cumulus to W.
- 4 Jan 10:54 overcast, mixed clouds, 56°F,  
a TRACE of RAIN last night (.03 ±").  
Caught a Fox Sq. 6 pm overcast - dark = 53°  
no rain - busy all day - no wind!  
RAIN at 8:22 & heavy 10:30 pm = 1.10"
- 5 Jan 11 am = almost clear now, calm, 50°F  
12:41 a few large cumuli, 51°F. Clearing in pm
- 6 Jan overcast 46° RAIN during Nite = .25"  
overcast moving S! blue far to W. 10:58 over-  
cast again. Getting darker, then brief  
heavy shower about 3 p.m. 4:11 a  
big rush to eat G.C.S, Towhees, doves,  
chickadees & Finches! Doves 12+
- 7 Jan shower about 6 am. RAIN since 9 am  
yesterday = .34". 9:40 overcast with light  
drizzle. 10 calm, but winds from the NW.  
10:40 Typical winter scene: Regulus, Tow-  
son W & Chickadees in acbs! 10:49 now  
a rain after a null period. 11:38 lots of  
activity doves to roof lot of finches & chickadees  
even golden-crown in! heavy overcast  
no rain now. 12: noon some strong gusts  
of wind, no rain 41°F! This storm must  
be curling up from the S. Cal. Storms & then  
down on us. clearly 3 pm 6:27 = 39° clear.
- 8 Jan clear, calm, cold (45° at 10:30) a few  
stringy cirrus. 12:30 = 51°F No bird activity -  
no finches towhees, etc.



Christman  
1992

Journal

254

8 Jan., del Norte St., Berkeley, Alameda Co., CA  
calm, calm, clear. 11:13 = 49°F. 2:29 pm  
same, few tiny cirrus; 54°F shade.

9 Jan 39°F at 9 am hazy with cirrus, calm

12 Sunday back from Palo Alto: 1:15 clear, calm  
few high cirrus: Brian married. Yesterday

13 Jan clear, calm 41°F at 9:49.

14 Jan " " " " 9:12. 12:36 = 51°F.

1 Fax Sq. to John Hinkel Park - smallish l.

15 Jan calm & hazy clear with few cirrus  
8:51 = 47°F. 11:21 becoming breezy & cirrus  
off to SW. = 51°F. 1:05 = 58°F more cirrus -

(?) status on W. horizon. Several bands  
almost overhead at 1:52. 3:36 = 57° hazy  
macular clouds, cirrus. 4:58 = 53° dark to W.

16 Jan hazy clear, calm increase dull cirrus  
cover. 10:18 = 45°F. 11:57 am now complete  
cloud cover, dull sun with shadows.

4 pm = 65° in sun very hazy with high cirrus, calm.

17 Jan Fog to 9:30 ± then light rain  
for 1/2 hr. 11 am started opening up to  
clear / hazy. act mass of a.m. RAIN-  
FALL = .02" 2:49 hazy (cirrus to SW) = 53°F.  
4:06 dull sun, clouds to SW-W; 53°F dull  
hazy otherwise.

18 Jan thru night strong winds. at 2:30  
± am a huge splitting crack & street light  
across st went out - then back on. when  
I got up at 7:15 I could see that the  
tall elm tree across st. (first up st on S  
side, between curb & sidewalk) had fallen  
onto the front part of house 9:56 the  
wind continues - from N - ?

19 Jan clear, calm 45°F at 8:30 & 10 3:50 same  
68°F in sun.



Wristman  
1992

Journal

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20 Jan., del Norte St., Berkeley Alameda Co., CA  
clear & calm, frost on windshield. 9:30  
= 39°F with a few cirrus & fog low to  
W to N+. 12:15 a ragged mass of  
clouds S to NW approaching, well over  
oak now, & 47°F. 3:40 stratus now &  
almost an overcast, no sun & 53°F. 4:31  
almost a complete dull overcast, calm 48°  
21 Jan clear, calm, 34°F at 8:15; 40°F at 9:36  
10:29 am 2 Fox Sp. 1 to rob is almost black  
between eyes.

22 Jan 9:37 am = 39°F clear & calm. 5:42 after  
dark = 43° C & C. slightly more bird activity.

23 Jan COLD - frost on windshield & 34°  
at 9:07 am calm clear with fog over  
tops of hills 10:20 = 39°F hazy with bits  
of fog & filmy cirrus, tho sunny. 11:10 now  
a band of cirrus S to NW well above oak & elms.  
3:24 pm = hazy sun, 58° cirrus over head since  
noon; more to W. 1 Fox Sp. so far and very  
little bird activity. MILAGE = here to  
John Hinkle Park .6 mile; to KENSINGTON  
shopping area = 1.3 mi. = squirrel  
releases. 4:53 now heavier cirrus moving  
in + stratus, doves, towhees, 1 J & chickadees.

24 Jan clear & calm, no condensation or  
frost 10:28 = 39°F, at 1:34 am a flock  
of geese flew over in dark, honking.  
11:59 am (C & C with high haze to W. 3:35 dull sun  
(no shadows) stratus overcast, 49°F.

1 Fox Sp. to Albany High School. 4:54 getting  
darker & more dull overcast, = 43°F. few birds today.

25 Jan calm, clear 38° at 8:30; 9:14 = 42°F.  
9:58 = 45° chunks of fog W to NW. 11:53 = 53°F, few cirrus



Mistman  
1992

Journal

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25 Jan, del Norte St, Berkeley, Alameda Co, CA

12:21 a light breeze from NW-N (Nature's flag). Extremely little bird activity

1:32 - 58° sunny calm a few filmy cirrus.

2:48 stratus overcast from S all but to N. quiet, calm

26 Jan calm, clear with a few cirrus. 10:30 - 49°F

27 Jan calm, scattered fog. 8:55 - 46°F. 10:09

= 51°F now general overcast, calm. 11:37

hazy clear 1/2, hazy sun & 51°F. 2:12 = 55°

N breezes, very hazy clear. 2:40 general stratus overcast 57°F calm. 3:49 - 53°, w wind overcast du ab: 1 Townsend w., Plain titm., huck-tits & chickadees

28 Jan light RAINFALL = .13" overnight.

9:21 = 47°F stratus overcast. 10:06 = 51°F

hands of blue to w & hands of (?) fog into edge to high cirrus to overhead. 11:04 = 52°

almost clear, hazy on edges; cirrus to N.

11:25 dull sun, clear, calm. 3:18 = 68° in sun C & C

29 Jan at 7 a.m. dense low fog which

opened first at 8:45 then variable fog

& sun 9:48 am = 45°F. calm 10:40 = 47°F

and hazy clear, calm. 12:35 = 57° clear, higher

sun. to w, S to N hands of filmy cirrus. 2:16

= 62° clear, sunny filmy cirrus. 4 pm 67° windy.

6:04 = 53° clear & dark; cirrus to w.

30 Jan 8:15 am clear, calm 42° with low fog

NW-E, 9:20 Stratus overcast & still fog with

winds now 45° 10:37 = 53° dull overcast, no shadows

calm. 11:05 some dull sun & breaks in overcast

= 54°F. 11:55 1/3 open; sunny calm; 1:41 dull sun

huge stratus bands S to N off to w = 60°F. 3:18 = 59° stratus over



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# Journal

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30 Jan., del Norte St., Berkeley, Alameda Co., Calif.

5:52 pm 50°, 80% stratus to N, calm.

31 Jan 7:30 = 43°, 9:59 = 47° complete stratus overcast, calm. 1:16 = 53° stratus. 2:02 same dull sun. 57° Lots of blue with huge long feathery cirrus overhead. The Pittosporum N & W. = lots of new growth only few white flower clusters now, some orange fruits evident in N tree. 4:25 = 65° in sun Lots of long cirrus. A big storm off coast will arrive

17 Feb RAIN 12-3 am = .66" 9 am - 49° scattered cumulus a few small towering types. calm 10:32 54° misc clouds with towering cumulus to W. 12:03 = 55° cumulus tower, then blow off! 2:15 = 59° in sun large well formed cumuli from W. 4:28 only a few small cumuli calm & 61° in sun. 5:52 almost dark, clear, calm & 50° quiet day.

2 Feb calm, clear 9:51 = 48° 1:43 pm clear with some hazy cirrus to far W. acc. gusts of wind, tho mainly calm & 59° in shade.

3 Feb clear, acc. brisk N winds & 9:13 = 50° 2:38 pm 2 quick good views of a Monarch & about Pittos. 4:05 70° F in sun, clear & calm. 4 Feb 9:30 = 50° (49 at 8:10) calm - clear. 11:18 same with few gusts of wind, at 57° F. 2:53 = 65° in sun at 3:50 = 77° F calm.

5 Feb 8 am = 40°; 8:51 = 44° calm, clear. Yesterday

1 Fox Sp. to Kensington. 9:25 another Fox Sp. on the line - very hesitant. 10 am = 49° cumuli from S; dull & bright sun. 10:38 hand of dumps of cumulus N-S moving to NW. 1:05 = 61° dull sun, clear, slight breeze Another Monarch about Pittos same 1? 1:31 another hand of clouds, 2:36 = 63° sky full of small, wispy unfarmed cumulus to N



Christman  
1992

Journal

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5 Feb., del Norte St, Berkeley, Alameda Co., CA  
3:30 = 71° in sun a few cirrus & high stratus.

4:48 = 58° no sun, heavier stratus, open to W.

6:20 dark, wind, 55° a few clouds to W. Strange day.

6 Feb wind during night "T" of RAIN by 8 am

9:20 light rain = 51° complete overcast of sun.

12:14 = 54° heavy night rain. 12-3 pm light

rain 3:38 = 53° darker overcast no rain now.

BLC up, light rain during night

7 Feb overcast at 8 am. periods of broken clouds

& sun. RAINFALL = .16" since yesterday.

10:25 = 56° 11:44 = 57° calm, now a dull overcast.

2:40 - lowering overcast, a few light sprinkles

8 Feb stratus overcast 9:45 = 57° 11:55 a few

sprinkles; 12:29 now a light windy rain; 56°

(this was brief). 1:57 = 60° clouds going N.

9 Feb 8 am 54°F overcast, variable breezes

11:36 getting darker, lower stratus now, 59°

1:02 = 59° at times strong gusts of wind; still

no rain. Days now of just eupsities to N.

2:44 = 57° BLC called - first sprinkles in P.A.

3:11 strong gusts of wind; sky turning monotonous

gray. 3:15 first sprinkles 4 pm bush-tits in oak,

townsies, feeding, doves hunched up - all in rain

Light rain. 6:34 = 51° continuing light rain.

10 Feb light rain over night 8:30 RAINFALL

= .30". Fast moving nimbus to N with

several brief showers (- 30 sec) 9:37 = 52°

11:06 sky suddenly uniform, then a shower,

= 53° 11:08 now dull sun! 11:30 another shower.

Then on: brief periods of sun, then brief showers.

2-3:30 huge dark clouds, bit of sun. 3:31 = 56°/6:35

= 48° & 42" since a.m. above. Rain since 4:30 pm

11 Feb RAINFALL during night 9 am = .73"



Whistman  
1992

Journal

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11 Feb., del Norte St., Berkeley, Alameda Co., California  
partly cloudy 50%  $\pm$  & 9am - 53°F P.M.  
acc. wind, blue with few cirrus. 3:32 dr  
pass 45mm. suddenly overcast & dark  
with strong breezes; 61°F 3:34 starting to  
rain - doves feeding. This maybe a strong  
storm, more than the rest.

12 Feb 8:30 = 50°, 10:12 = 55° RAINFALL = 1.98"  
started about 5pm yesterday & continued  
thru night. Variable clouds (9am 80% clear)  
10 + more clouds & breezes. 12:05 now sun  
with big cumulus heading N & 59°F. 3:06 = 70°F  
in sun, large cumuli going over & over hills.  
3:47: same mainly clear. cumuli to W

13 Feb RAINFALL overnight = .43" 10:16  
lots of dark cumuli to N. & 53°F. Noon =  
57° with sun & cumuli to N, a few breezes.  
12:42 first Fox Sq. of day! d's adult & easily  
frightened (from Pittos). 2:19: 58° Sun, 30%  
clouds 3:35 = 55° clouds building up over hills -  
dark to SE!

14 Feb light rain at dawn, then a respite, at  
9am heavier rain - wind. 9:30 = 47°F  
RAINFALL (over night to noon) = (.22")

10:33 some strong gusts of wind. 10:58 windy,  
rain stopped, still overcast. Then some sun.

11:19 showers, dark & windy. 1:42 a sudden  
dawn pour with 3 doves 1/2 up W elm  
muddled in rain - earlier walking in  
paddock on landing. 1:48 heavy heavy shower  
2:46 went out in a lull now a dawn pour  
- only 1 dove left in elm. 3:05 = 50° Rain. 3:27  
very dark/rain, breeze. This is easily the  
hardest most sustained rain in 5 or 6 years.



Christman  
1992

Journal

260.

14 Feb, dd Route 91, Berkeley Alameda Co., Calif.  
light rain in evening & during nite, wind.

15 Feb clear except puffy cumuli before  
RAINFALL (since noon yesterday) = 1.24"

10:01 am clear, slight breeze, a huge, tall, ill formed  
mass of cumulus SW to W (overcast); extends  
to S. 10:12 This mass is moving to NW sector.

10:47 Disorganized mass with few cumuli over  
head - no sign of billowing cumuli yet.

11:12 90% cloud cover - changed direction to NNE

11:21 first thunderhead WSW; big cumuli over head.

= 54° 11:47 windy, high cirrus, clouds fast to N.

2:36 = 57° almost complete cloud cover back to  
SW & W - rolling cumulus. 3:15 almost uniform  
leaded sky and first sprinkle (didn't last long).

3:49 getting darker, windy, sprinkles again. 3:52

more rain. 4:30 steady rain a little wind.

16 Feb RAINFALL (overnight) = .89"

9:23 = 49° F variable clouds - no sprinkles

10:40 brief rain shower; 52° Then a bit of sun.

10:51 overcast, light rain. 12:38 = 53° clearing  
with few cirrus & few towering masses, SW & NW.

1:29 = 57° (in shade) sunny with filmy cirrus & bands  
of clouds SW to NW, dark! 3:47 1/3 cumulus (some  
towering to N) few cirrus, 66° in sun. 4:07 clouds  
moving in from S. shade, = 55°

17 Feb Trace of rain overnight with heavy lts  
rain at 8 am. 9:43 = 52° sunny with scattered  
cumulus. 1:12 almost complete cloud cover & 56°

3:37 = 69° in sun; towering clouds over hills, 50% clear

18 Feb 85% + stratus overcast, everything dry  
9:16 = 52° calm. 12:15 = 58° F; dull stratus the rest  
uniform. 1:01 sprinkles! 2:51 a continual lts  
rain & 56° 6 pm RAINFALL = .18 at 6 = 51°



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1992

# Journal

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19 Feb, all route 21, Berkeley, Alameda Co., CA  
9 am = 56° overcast with off & on lite sprinkles  
RAINFALL (since yesterday) = .13"

total for Feb 92 so far =  $7.03 + .13 = 7.16"$   
A good solid rain started at 12:50 pm  
rather abruptly. 1:29 a nice gentle tho  
substantial winter storm - much needed.  
2:49 slightly heavier rain & slightly darker  
well get a drenching. Its nice after all  
the fair & so-so weather we have had since  
\* I retired. 3 pm Tanager in to feed 3:03 from  
oak clinkadee to D-4 and 2 (2 tab) tanagers  
on line - no wet! Flock of bush tits from  
oak to Pittos & 2 ♀♀ H. Finches at D-4.  
3:08 a few sparrows from N & scrub to ledge  
then to D-4 & a bill full & N. H. Finches talking  
among themselves in Pittos. 1 Dove on line 18'  
from house. 3:14 heavier rain - dove still in  
place. 3:28 rain has let up same doves in  
w. elm. 3:59 no rain & dove to ~~the~~ roof from  
NW elm, move in W elm. Just waiting a tanager  
in & they'll descend - land casing! Spring!  
4:30 heavy downpour RAINFALL = .35"  
4:45 lighter rain 2 H Finches to D-4 dove to roof  
4:53 bush-tits back in oak - lite rain.

20 Feb mainly clear clouds over hills RAIN  
FALL pm & LAST night = .96" 9:54 = 55°  
10:37 = 57° lots of fluffy amorphous small cumuli.  
2 pm = 60° hazy from SW slight breeze. 3:54 = 60°  
hazy & some dull stratus, calm. 4:43 = 57° more  
stratus off to W going N. This past week the  
fruit trees about N. Barb have burst into  
flower - white and deep pink (latter is ? orn-  
amental plum).



Christman  
1992

Journal

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21 Feb., ~~del Norte St., Berkeley, Alameda Co., Calif~~  
7:40 am = 51° overcast. Rain - real gentle  
at 8:05. 9:10 54° still lite rain. 11 am over-  
cast; a few light showers. 2:31 = 58° calm  
overcast, no rain. 3:53 misting & 57°. 6:12  
occ. sprinkles, overcast, 54°.

22 Feb 10 am Sunny with a few scattered small  
cumuli, 56°. clouds moving S; high pressure is  
building in. 11:49 sunny, no clouds, 60°F  
1:48 = 64° in shade a few small cumuli to S.

24 Feb. hab from F. A. clear, occ. breezes  
& in sun - 90°F ! 4:36 partial shade = 82°

25 Feb 50° at 7:35 am clear & calm. 1 Monarch  
seen in Palo Alto yesterday.

26 Feb 9:20 = 56° calm, clear. 10:31 NO  
bird Activity !

27 Feb 10:28 = 60° clear calm. Fog to W, dur-  
ing night foghorns! 12:04 bank of cirrus  
to W (over oak). Monarch above Pittos (its  
flying faster than most) - = 68°. 2:48 = 78°  
hazy S to N off in W, with feathery cirrus. I move  
Monarchs to N. 4:34 = 78° more haze & cirrus.

28 Feb 8:25 = 58° dull overcast - high cirrus  
vague sun. 9:34 same with dull sun & 61°F.

12:24 pm 67° a Fox Gg. crossed street from  
elm to elm (S to N) the missing elm has  
effected N. travel. This is first Fox Gg. seen  
this week! 2:39 = 71° hazy overcast, 1 Mon-  
arch to N. 3:58 = 71° dull sun, hardly any shadows  
- another monarch over Pittos.

29 Feb 9:42 = 59° calm, thin overcast, dull sun.  
12:20 = 64° part hazy blue with a few cirrus with  
a bank of cumulo-stratus in from SW, occ. sun.  
2:07 stratus darker, 78° hazy sun.



Christman  
1992

Journal

263

1 Mar. del Norte St. Berkeley, Alameda Co. Cal.  
RAIN began at 11:30 last night = .18"

almost clear at dawn. 8:30 cirrus over-  
cast, breezy, big cumulus to NW. 9 a.m. =  
55° dull sun, thin overcast. 11:11 = 63° with  
dull overcast. 11:57-65° same plus heavier  
cumulus layer. 5:31 = 57° dark overcast.

2 Mar last night = 7+ pm. thunder/lightning  
& heavy down pour. showers again about  
5 am. RAINFALL since yesterday = .35" 10 am  
= 55° - heavy varied overcast. 11:37-61° 2:30  
pm sunny, 65° a hole - big in overcast over-  
head.

3 Mar assorted cumulus. 9:36-56° calm.  
10:52 2 Fox Sq. exploring about from Pitts  
up line (I chased away) into oak & back  
to Pitts. 12:27 pm 60° breezy, almost clear,  
few small cumuli to N. 2:pm breezy, 61°  
now cumulus in to an almost solid overcast

4 Mar. cumulus overcast 95% + breezy 55°  
at 9:32. 10:24 dull sun 10-15% open & 57°

1 Monarch high to E. this a.m. another M. (10:32  
Pittosporum new white flowers & lots of terminal  
branch new growth (now for several weeks).

11:25 bank of lower heavier stratus in SE  
NW edge off to W. 4:03 was bright sun, etc at  
2:30. Now overcast with stratus & lenticular  
effect, getting darker.

5 Mar light rain during night, at 8:30 RAIN-  
FALL = .72" 9:05 lightening up a bit.

9:43 sprinkles & acc. wind. 10:14 light rain

12:14 some sun - break in clouds = 58° 1:50  
brief heavy down pour. then periods of sun. 8:50  
heavy down pour again.



Christman  
1992

Journal

26A

6 Mar., ~~departed St. Berdoys, Alameda Co., CA~~  
9:58 am: 54° broken cloud cover. Heavy  
rain over night = 1.25" at 8:30 am  
3:20 = 57° huge thunderheads NW & SW no  
rain so far since Tam.

7 Mar clear (2 scudicinus) = 48° at 8 am  
9:41 bandacinus to W, & 50°. 10:17 dull  
cirrus anemias 53° 1:08 = 60° still ane-  
cast, dull sun. 1:40 1 Monarch to W over ab.  
3:25 almost clear, 72° in sun. 5:06 a few  
cumuli 59° 2 doves in elms.

8 Mar. low thatus & 50° at 7:30 just about  
clearly 8:48 & 53° 8:56 more fog back  
10:48 55° - 25% chunks of fog - bright sun.

9 Mar broken fog, calm 9:21 = 55° 12:52  
63° in shade, dull sun, still bits of fog.  
1:23 1 Monarch to N low. still bits of fog  
2:43 hazy clear 65° acc. breezes.

10 Mar. 9:20 = 56° Fog, calm. 9:51 = 57° 1/3 open.  
11:14 = 58° hazy sun clear, but for small chunks of  
fog. No bird activity this a.m. 12:19 pm  
hazy clear, 59° 1 Monarch flitting about  
Pittos, 2:17 = 64° hazy clear. Towhees, chicka-  
dees about no doves! 4:29 = 66° same calm.  
Walking to Golano Ave a woodpecker drum-  
ming at top of utility pole every 10-15 sec  
couldn't make ID - size of hairy but didn't  
see white back. 6:06 after sunset 57° clear calm

11 Mar fog breaking up by 9:26 = 55° calm  
2:21 = 62° feathery cirrus from S; 5:50 huge  
scams of cirrus (same thickish) to N & 56°

12 Mar fog & condensation to 8 am then hazy  
clear, 10:42 = 55° 12:10 Monarch over Pittos &  
59° 12:42 another Monarch - same



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1992

Journal

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- 12 Mar, del Norte St., Berkeley, Alameda Co  
3:19 another Monarch over Pittos (same one  
?) This yr. is different!
- 13 Mar overcast - heavy breeze 10:09:57°  
90% clouds, 11:54 = 60° more clear now.  
3:45 = 72° in sun. 75% high overcast.
- 14 Mar light rain 5-8 am, still overcast.  
8:51 = 51° Rain again at 9 11:50 still light  
sprinkles a few patches open to W & tiny bit  
of blue. 1 pm clearing & 55° 1:11 sun out.  
1:54 complete overcast & light sprinkles.  
2:04 a hole & bright sun, back to W. 3:58 lots  
of scattered cumulus & sun RAINFALL = .40"
- 15 Mar sprinkles during night, overcast  
8:57 = 53° sprinkles started, windy. 10:09 Sun  
out a few patches of blue. light rain all afternoon
- 16 Mar light rain to 6 am RAINFALL = .40"  
overcast breaking up 1:47 = 59° now  
sunny; showers this a.m. 4:43 59° no  
rain this pm intermittent sun, clouds to N.
- 17 Mar clear, calm 47° at 7:30 am. 8:46 = 49°  
12:38 am = 59° cumuli building over hills.  
2:38 cirrus off to W. 3:41 - 65° in sun; now  
sky entirely variable cirrus with cumuli to W.  
4:42 clear except cumuli to far W.
- 18 Mar very clear & calm 50° at 8 am 12:16 pm  
cumuli under high clouds = 62° dull sun.  
1:23 a Monarch over Pittos & saw 1 eastern  
heavier stratus 63° no sun.
- 19 Mar overcast 9:23 = 56°. 10:50 dull over-  
cast, 62° 1 Monarch over Pittos & oak. 11:32  
another Monarch. 11:50 Monarch landed on  
Pittosporum flowers. 2:06 overcast still hot  
sun out, 64°. 6:17 = 59° variable stratus calm



Christman  
1992

Journal

266

19 Mar, del Norte St, Berkeley, Alameda Co CA  
at 6 + this evening caught a small rat  
in attic - have heard it up there this past  
week so put up a 'rat' snap trap. also  
caught 1 in 'squirrel trap' on landing  
last week. Have also heard noises out  
there this past week!

20 Mar overcast, light sprinkles - 8:30 to 10  
later = 59° 2:07 dull overcast & a little  
sun. = 64° 3:21 - 81° in sun, clearing calm.

21 Mar overcast, 9:23 = 59° calm. Noon =  
sun out, 62° clouds broken up. 12:18 Mon-  
arch sailing over oak S to N. 12:30 1 to 5; 1:08  
1 glau to N, 2:52 72° in sun of small clouds.  
4:21 almost clear = 64° some activity today  
6:06 huge scapes of *Erasmia* S to N. = 58°

22 Mar Rain over night, highly neg. Hard.  
8:50 clouds, a little dull sun. RAINFALL = .60"  
1:50 - 2:25 extremely heavy RAIN, Lightning &  
thunder & .68" ! Then periodic sprinkles  
& sun until ± 5:30 with thunder & lightning (3)  
& one minute of almost heavier downpour  
(except Mexico & Iowa) due experiences  
6:06 almost dark heavy rain + 7:PM .45

23 Mar. Variable cumuli; 50° at 8 am; 54° at  
9:20 RAINFALL over night. 54." 10 am -  
more & larger cumulus clouds, 1 huge tower-  
ing one to W. This am & yesterday early am  
I've heard unfamiliar bird songs - one  
sounded like a warbling vireo. 2:15 = 63°  
cirrus & few cumulus pretty open & sunny!  
3:29 = 74° 1 monarch S to N. 4:30 almost clear = 62°  
24 Mar variable thin overcast, 10:02 = 59° calm  
(22nd - a Sunday & noticed first leaves on apple)



Christman  
1992

Journal

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24 Mar., del Norte St., Berkeley, Alameda Co.  
Continued - 11:14 am = 65° 1 Monarch over oak  
& Pittos. Lat of white flower clusters on Pittos  
plus new growth is not quite as bright  
green now. 1:49 more cumulus, 68° and 1  
Monarch over Pittos. 3:31 overcast / variable  
cumuli / status; = 71° no sun! calm.

25 Mar. variable clouds, sun, 68° calm.  
noon = 64° dull overcast (narrow thin) sunny  
12:13 1 Monarch over house, down over  
oak & to W flying fast & almost erratically; = 65°  
2:31 1 Monarch over oak from SW to NE. 4:05  
status, some dark, no sun, 63°.

26 Mar. 9:07 = 57° clear, calm. 12:15 = 63°  
Balm! plus same haze. 1:45 1 Monarch  
over Pittos; 67° bright sun. 4:22 = 70° a hot  
afternoon, was out of a small towering  
cumuli over oak, & then to hills.  
6:10 = 63° a few indistinct cirrus to W, calm.

27 Mar. 10:08 = 59° hazy & clear, almost dead  
calm. (out for 2 hrs). 12:30 = 63° more of a breeze.  
4:14 = 66° more haze. Have 2 monarchs today.

28 Mar. overcast of low clouds, 9:05 = 56° calm  
9:38 = 59° sun just out, 1/3 blue to W. 12:14 mild  
breeze, 1 long cirrus streamer @ 60°. 1:08 getting  
a bit windy & hazy to W - 61°. 1:54 1 Monarch.  
2:46 = 64° breezy with haze & filmy cirrus to W. Sun!  
4:16 = 61° occ wind, haze dull sun with shadow

29 Mar. overcast, 9:47 = 57° a few holes in fog -  
calm. 11:05 overcast again (after a period of sun)  
= 60°. 3:52 = 60° still overcast.

30 Mar. wake at 6 am - very light rain! 8:28 = 52°  
overcast, calm. 9:53 = 53° solid overcast 10:55 light  
sprinkle. 3:14 darker overcast, 55° 3:28 rain again



Christman  
1992

Journal

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30 Mar., del Norte St., Berkeley, Alameda Co., Calif.  
still an overcast, no rain &  $53^{\circ}$  at 4:17 .02"  
rain.

31 Mar clear & calm 7:30 =  $50^{\circ}$ , 9:00 =  $54^{\circ}$   
12:51 =  $63^{\circ}$  calm Apple tree - 15% leaves out,  
many deep pink buds & also white  
flowers. 2:55 =  $81^{\circ}$  in sun! calm clear. noticed  
caterpillar "frass" falling under oaks in back-  
yard & the big oak in front! Towhees  
has been in front oak of late!

1 Apr clear, calm 9 am =  $61^{\circ}$ . same condensation  
yesterday found some feathers (? tail-  
but still in sheaths) on steps - then  
found an patch head & shoulder of a  
chickadee - cat killed 9:51 occ breezes  
same long cirrus to W. 12:10 =  $69^{\circ}$  in shade,  
occ. breezes hazy. 2:16 =  $73^{\circ}$  in shade. 3:24  
pm =  $83^{\circ}$  in sun, calm hazy. 4:28 1 or 2 <sup>calyx</sup> flowers  
(1 from S to Pittos) 1 from N or E. 6:30 =  $63^{\circ}$  <sup>dawn</sup> after sun

2 Apr Fog; 8:36 =  $56^{\circ}$  calm. 10:08 fog overcast  
still,  $59^{\circ}$ . 12:45  $65^{\circ}$  dull light, few holes in fog.  
12:50 sun out. 2:07 =  $65^{\circ}$  dull sun;  $\frac{1}{2}$   $\pm$  blue calm  
2:30 clear; 2:48 =  $76^{\circ}$  3:24 fog back,  $77^{\circ}$ . 6:19 =  $59^{\circ}$  <sup>Fog</sup>

3 Apr. Sunny & no pieces of fog, calm =  $55^{\circ}$   
10:50 am =  $60^{\circ}$  clear with 5 to N cirrus off to W.  
The first small leaves appeared on my  
LINDEN TREE immediately S of front  
steps. 12:58 pm  $65^{\circ}$  hazy cirrus - a battered  
weak cold front will be passing thru.  
1:45 =  $67^{\circ}$  dull sun, almost solid thin cirrus.  
5:47 =  $65^{\circ}$  hazy cirrus, stratus to W. calm  
4 Apr hazy sun, thin cirrus, 9:40 =  $57^{\circ}$  calm  
12:1 =  $59^{\circ}$  practically clear, cool, calm. 4:24 clear  
windy &  $63^{\circ}$  a cold day inside.



Christman  
1922

Journal

269

5 Apr., del Norte St., Berkeley, Alameda Co., Calif.  
DAYLIGHT S. TIME 7:30 = 43° calm, clear  
10:42 = 52° 11:07 feathery cirrus from S. 2:00  
pm hazy cirrus, 64° & 17 March.

6 Apr 51° at 9:36 am clear & calm. 1:18 = 68°  
hazy clear, slight breeze. 5:49 hazy clear = 67°  
cold day - all day little bird activity.

7 Apr 9 am = 51° clear & calm. 4:10 = 85° sun clear

8 Apr 10:24 = 57° clear, calm. 4:41 very hazy & = 70°  
dull shadows - almost shade. The "City" took  
down SW elm - 3 doors down today

9 Apr 9:28 = 56° fog, calm. Now they are taking  
out another elm - so we have lost 4  
in last year as so. 3 pm still fog, tho have  
been a few small chunks of sun; 6:10 6:20 pm  
= 67°, hazy clear - sun; fog took cirrus NW. calm

10 Apr high thin cirrus; bit of fog to W  
early; 9:53 = 57° calm. 10:55 = 59° almost  
clear with bank of heavier cirrus W to N. 1:55  
= 68° almost complete high thin cirrus, over-  
cast indistinct shadows. 4:23 = 71° dull sun  
7:33 heavier stratus, low fog or cumuli = 56°

11 Apr. 9:15 am = 55° solid cumulus overcast  
with acc. breezes. 12:21 = 66° breezy and  
now a bit of sun. 12:32 getting windy, no sun  
2:35 = 67° breezes, stratus overcast. 4:25 = 64° same,  
calm, darker stratus to W. Only fair amount bird activity  
5:50 uniform gray sky - first sprinkles. 6:03  
moderate sprinkles.

12 Apr 9:57 am = 56° off & on light rain. Cloud  
cover, slight breeze. 2:29 sprinkles began by  
3:45 constant light rain & 59° calm. Rain  
stopped at 5:30 - can't read it - Joe (who  
worked at bath room) knocked it down!



Christman  
1992

# Journal

275

12 Apr., del Norte St. Berkeley, Alameda Co, Calif  
5:47-60° no rain, clouds breaking up! no  
sun; maybe in awhile! RAINFALL = .25±

13 Apr. rain gauge knocked down by work-  
man. Pretty clear at 8 am - 53°± At 10:  
08 numerous cumuli & sun & 59° 3:30  
mild wind, hazy clear, 66° with a few bits of  
fog coming in. 4:40-65° haze & cirrus tow. lit haze  
14 Apr 9:36 am = 55° clear calm, but for few  
cumulus from N. 4:44-67° breezy hazy  
clear after small cumuli

15 Apr 8 am overcast. light rain at 8:30 -  
9:36 = 57°F 11:28 = 61° overcast. still dry

16 Apr overcast, bit of a drizzle 10 am = 59°  
calm. 11:56 = 64° dull sun, thin overcast. 2:13  
= 68° thin overcast diffuse shadows. 3:02 = 67°  
same but variable stratus. 3:53 = 72° same  
5:52 = 63° complete dull overcast, slight breeze!

17 Apr scattered low clouds, 9:46 = 62° calm  
1:10 = 67° lit breeze few puffy cumuli  
6:25 = 75° windy clear. a quiet day.

18 Apr clear & calm. 8 am = 50°; 9:38 = 58°  
10:09 = 61° now rather windy.

19 Apr clear with minor fog at 7; clear - calm  
with a few cirrus at 9:30 = 68°. 11:22 = 73°  
getting windy. 1:01 hazy cirrus 1/2±; 77°. 5:34 =  
79° in sun; mackerel clouds & cirrus & - stratus

20 Apr high fog; 9:13 = 60° calm dull sun.  
10:56 = 64° 2:04 = 69° haze overhead, cirrus to w.  
slight breeze. 3:29 dull high overcast, slight haze  
70° 4:41 = 71° cirrus - stratus overcast mild breeze.

21 Apr clear calm 8 am = 50°; 9:35 = 54° 11:57 am  
= 61° cirrus hazy & breezy. 2:26 hazy cirrus, 65°  
breezy.



Christman  
1992

Journal

277

22 Apr., Alhambra St., Beckley, Manana OCA  
hazy cirrus, 9:20 = 51°. 12:17 = 58° almost  
calm - a cage day. 4 pm = 81° in sun, mild  
breeze, clear. Very little bird activity.

23 Apr. hazy clear, 10 am = 59° a few cirrus, calm.  
1:24 = 73° almost dull sun, breezy & thin  
high overcast. 4:08 = 80° dull sky & sun, calm.

24 Apr. high thin cirrus overcast 9:56 = 65°  
calm. 1:10 = 77° bright sun, clumps of cirrus.  
3:58 = 84° outside, solid cirrus overcast, calm  
muggy. Very little bird activity - usual guys (-)  
4:33 = now some darker stratus. 6:56 more  
& heavier stratus, 72° calm. a quiet day.

25 Apr. 9:16 am = clear, calm & 61°. 11:15 = 68° now  
feathery cirrus from S. 1:45 = 74° overcast  
W of huge front of feathery cirrus S-N - W, <sup>2/3</sup>  
of sky. 4:07 = 94° in sun hazy clear, calm, <sup>few</sup> cirrus

26 Apr. to Palo Alto at 8 am

27 Apr. clear (hazy tow) calm. return from PA  
about 11 am 12:30 = 71°. 3 pm = 77° becoming  
a bit breezy. Feathery cirrus to W. 3:36 = 84°  
5:53 hazy clear = 91° in sun.

28 Apr. hazy clear, calm 10:30 = 67° 3:45 clear with  
a few cirrus - 95° in sun - calm. Few birds  
two bees, a few H. F. & 1 checkmate. No J's  
4:30 = 87° semi shade, hazy to SW. 4:45 - a small  
whitish moth (?) flying over N part of oak.  
is this first oak moth (?). 6:10 = stratus; 79°!

29 Apr. clear, calm 5:30 at 8 am; 9:08 = 62° cumulus  
& stratus to W. (9:25 up to top utility pole  
as circle.) 9:54 nearest layer well over oak  
irregular edge of mass of stratus closer some  
darker gray. can see clouds moving to N. 12:03  
pm = 68° cumulus overcast, a bit patchy. Variable  
winds



Christman  
1992

Journal

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29 Apr, Del Norte St., Berkeley, Alameda Co., Calif.  
1:22 = 71° overcast - hole to NW 2:04 darker  
to W; 1/2 open E & S. 3:32 solid overcast,  
breezy darker stratus 6:24 scattered cumulo-  
stratus = 66° occ. breezes. strange day!

30 Apr 9:54 am = 59°; variable scattered  
clouds, TRACE of rain last night. 1:33  
= 66° clear, slight breeze, after puff of cumuli  
3:36 = 81° in sun, same. 7:24 clear, slight E., = 64°

1 May clear, calm - 10:26 = 60°

2 May clear, calm 10:22 = 64° 12:05 = 70° with  
slight breeze - 1:53 = 77° 4:25 = 89° in sun, same

3 May 7 am = fog; 9 = 60° hazy clear.

4 May 8 am = 56° fog, slight breezes. 11:18 = 60°  
breezes, hazy clear. 1:10 = 67° 3:47 = 81° same  
6 pm = 73° hazy fog coming in with mild wind  
bright sun. I have seen no juv. birds!

5 May 9:26 am fog with few holes & 57°

10:10 = 59° practically clear, except w. same  
wind. 12:17 = 61° breezes, hazy clear, sunny  
3:50 fog back in, breezy & 6:30 quiet day.

6:14 = 57° fog & windy. a teacher & 7 wd day!

6 May 10:25 = fog & 57° slight breeze 1:14

hazy clear with few chunks of fog - 6:30  
2:30 hazy clear, wind & 64°. 4:40 = 72° fog coming in!

6:05 = 61°, overcast, windy. little bird activity

7 May 9:34 = 57°, fog, mild breeze 12:08 fog  
& 64°. 4:20 = 80° breezy - clear! 6:38 fog coming  
in = 75° breezy.

8 May 10:07 = 60° fog, breezy & dull sun.

10:38 same, but hazy clear, 1:20 hazy clear 65°

2:36 = 71° dull sun - high thin cirrus layer.

9 May 9:30 = 70°? clear with thin cirrus, slight  
breeze. 2:30 = 86° strong gusts of wind all p.m.



Christman  
1992

Journal

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9 May, del Norte St., Berkeley, Alameda Co., CA  
3:31 = 93° in sun breezes 5:29 = 97° in sun  
breeze, hazy clear.

10 May clear, calm 9:29 = 61° 1:50 = 66° wind  
for last hr + ; fog forming over the hills  
5:26 = 71° haze, a breeze whips of fog. 3 toad moths

11 May 9:28 = 59° fog, slight breeze; first  
sun max. 10:04 = 59° clearing hazy. 12:43  
clear hazy, 61° breezes. 4:07 Hazy, clear, a  
bit of fog over hills & 78° in sun breezes  
4:14 - 1 toad moth

12 May fog; 55° at 9:13. 9:50 windy - whole  
elm foliage moving. 11:15 fog, 60° light  
breeze. had periodic dull sun, 59°. 1:16  
slight breeze, 60° clear, hazy & indistinct  
cirrus from SW. 4:15 windy, dull cirrus = 73° in sun  
4:41 very windy, hazy cirrus 70° in sun <sup>dull</sup> day  
5:03 1 toad moth. Grass still under oaks

13 May ~~for~~ broken fog - sun, 9:20 = 56° slight  
breeze. 2:24 = 63° hazy clear, clear cirrus.  
3:06 first toad moth. 4:07 hazy overcast, 69°  
hazy no sun. a strangely quiet day!  
6pm = 60° fog & cirrus, dull sun.

14 May fog, 54° at 9:14 10:58 am sunny (58°)  
breezy small bits of fog & hazy. 12:16 = 59°  
hazy clear.

15 May 9:09 = 55°, slight breeze, 75° to fog.  
11:13 am = 57° bits of fog & high cirrus to W. 2:30 =  
63° windy, clear - haze. 4:16 hazy clear + calm 78° in sun  
16 May broken fog. 9:34 = 59° breezy; sunny  
11:45 = 61° hazy clear. 3:04 = 68° breezy lots of  
cirrus & " . 4:36 = 77°, 1 toad moth - same  
4:40 - 2 OM; 2:35 =

17 May spotty fog, clearing 9 am 9:33 = 59° 68°



Christman  
1992

Journal

280

17 May, ~~El Norte St. Berkeley, Alameda Co. Calif.~~  
Carib: 3:39 breezy hazy sunny & 88° sun  
3:43 first (1) OM = aab-inath; then 2. 5:57 =  
77° in sun, clear, bit of haze, slight breeze  
= about 4 OM!

18 May fog 9:29 = 61° few holes 10:41 = 64°  
sun. 10:59 = 65° 1 OM. 11:21 brief dull sun.  
2:08 pm scattered fog & cirrus dull sun = 70°  
3:58 = 80° long cirrus streamers, sun, 2 OM  
4:34 dull sun, 82° in sun; 3 OM(+). 4:45 probably  
4 OM.

19 May scattered chunks of fog & bits of sun  
9 am = 62° almost calm. 11:26 = 64° almost  
clear. 2:34 bright sun & sky, bits of fog &  
cumulus, 67°. 3:57 4 OM windy - fog coming  
in, 69°. 5:45 = 80° windy fog-clouds to N. Sun

20 May clear! 10:48 = 63°F 12:45 a bit  
breezy, a few small cumuli & 68° 4:24 clear,  
90° in sun, breezy. 2 + OM. 6:08 = 88°F  
5 or 6 + OM

21 May ~~58~~ at 8:43 pm clear, calm 10:16  
= 63° 3:57 = 90° in sun, 2 OM.

22 May clear. 10:11 = 62° few cirrus to W,  
calm. 6:19 in sun 77° calm, sun & lots of thin cirrus

23 May fog to 8:30 then clear & calm. 10 am  
= 61° 10:34, 50° to chunks of fog! 60°. 12:05 =  
hazy clear, 62° new slight breeze. 6:08 clear  
calm & 79°. 3 OM

24 May 1:16 fog since last night, windy & 64°  
5:28 still fog, windy & 60°

25 May fog to 9, = 58° broken fog, mild breeze.  
10:02 almost clear, a few thin wispy cirrus; 60°  
1:53 many more cirrus, breezy & 70°; 1 OM. 4:02 pm  
87° in sun, stratus from SW, calm. 4 OM. 4:25 - 7 OM  
5:57 = probably about 12 OM or less



Christmas  
1992

Journal

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26 May, del Norte St, Berkeley Alameda Co, CA  
Fog, 9:44 = 61° with mists & a recent  
hale in overcast. 10:31 almost completely  
clear, 63° 2:57 first OM. 72° 3:46-89° clear  
3:54 = 2 OM. Only an occasional towhee  
new in cab. 4:03 - 5 OM at least. 4:42 at  
least 7- 9 OM 6:31- 81°

27 May Fog 9:15 = 61°. 10:34 = 60° clearing. 2:20  
breezes, whiffs of fog, 68°. 2:31 3 OM = 66°. 3:19  
71° in sun, getting heavy - cirrus & thin fog.  
3:36-6 OM 3:44 = at least 7 OM. 3:56 overcast  
4:04 - 10 OM? very active. 4:20 lots of activity  
over cab 10 + OM 4:47-67° 1 OM, windy overcast

28 May Fog (with spotty clearing) = 4:14 59°  
10:20 am almost clear, 60° calm. 12:40 clear  
- hazy & windy 63° 2:38 = 65° 1 OM. 5 pm -  
63° fog in. at least 10-12 OM.

29 May 8:49 am Fog, windy, 60° 9:11 saw sun.  
11:19 am hazy clear, breeze, 64° 1:54 first  
OM; 66° 3:38 = 79° in sun & ± OM. 3:40 & &  
& on line. 5:54 = 1 OM, 81° hazy breezy.

30 May Fog, 9:46 = 63°. 10:49 almost clear, haze  
breezes 63° 3:41 = 77° breezy 3 OM & OM 6:33-80°  
bright sun, calm, clear, no activity.

31 May Fog, 10:51 = 59°

1 Jun. Fog, 9:40 = 59°. 11:27 almost clear  
2 pm clear, first OM & 66°. 3:28 pm 72° in sun  
- 1 OM; then 2 OM. 3:33 = 5 OM. 5:48 sun, of w  
cirrus from SW = 83°, 1 OM.

2 Jun. Fog 9:21-59° 10:23 am dull sun, still  
overcast 62° 3:10 1/3 hazy clear, 1/3 returning  
fog, breeze 70° in sun. 2 OM. 5:49 bright diffuse  
sun-fog-71°

3 Jun Fog, 9:56 = 59° 12:27 still foggy 12:54 sun  
clear to w,



Christman  
1992

Journal

282

3 June, Del Norte Co., Berkeley, Alameda Co., CA

$\frac{1}{4}$  fog, Mlgy. 2pm =  $63^{\circ}$  firsom 3:52  
=  $85^{\circ}$  in sun, 20M. 4pm 50M. 6pm =  $83^{\circ}$  20M

4 June. Fog to 8:30. 10:13 clear, calm &  $59^{\circ}$ . 1:48  
10M;  $67^{\circ}$  bright day. 2:21 -  $65^{\circ}$  windy, 30M.  
3:51 - 60M &  $85^{\circ}$

5 June. Fog, 10:07 =  $62^{\circ}$ . 11:05 sun out, fog  
breaking up. 12:12 cirrus, dull sun, occ. wind  
2:02 general overcast, no sun, lots of wind  
&  $65^{\circ}$  3:03 same 20M.

6 June. Fog; 9:30 =  $59^{\circ}$ ,  $\frac{1}{3}$  blue. 11:21 =  $61^{\circ}$   
windy,  $\frac{1}{3}$  blue (low) no sun. 1:09 pm  
6A breezy hazy clear. 1:50 =  $66^{\circ}$  2:27  
very windy, 10M 3:49 same except  $83^{\circ}$  in  
sun & 20M. - then 4 or 50M.

7 June Fog early 10:53 =  $62^{\circ}$  mostly sun.  
12 noon - windy, clear with bits of fog,  $62^{\circ}$   
in 5 minutes & Fox Sq. up line from  
cab to Pittos. 2:34 -  $64^{\circ}$  2 60M 4:29  
= 30M &  $85^{\circ}$  hazy clear.

8 June. Fog, dissipated by 9 am. 10:15 =  $60^{\circ}$ .  
Clear, calm. 10:49 3 Fox Sq. down line.  
10:52 another Fox Sq down line from Pittos  
to cab. 12:24  $60^{\circ}$  windy, bright sun  
few patches of fog. 4:21 =  $67^{\circ}$  in sun, wind  
hazy clear, few small chunks of fog.  
6:02 complete fog, breezes,  $60^{\circ}$  8:30 Sun down  
 $57^{\circ}$  calm sun at horizon just to Rt. of the  
utility pole or circle. Fog raising in.

9 June. Fog, 9 am =  $60^{\circ}$  9:40 =  $59^{\circ}$   $\frac{2}{3}$  blue  
with few cirrus. 12:10 few bands of cirrus  
N to S &  $64^{\circ}$  breezy. 6:10 clear hot hazy  
=  $93^{\circ}$  in sun, calm.

10 June 8:00 =  $56^{\circ}$  FOG 10:27 -  $62^{\circ}$  few holes in  
fog, 10:33 few high small cumulus / stratus



Christman  
1992

Journal

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10 June, del Norte St, Berkeley, Alameda Co. CA  
11:44 am windy, bright sun, 60° clear  
mist for long stratus-cirrus cold  
front up N. 1:28 - 64° in shade, bright  
sun. Nearby cumulo-stratus to NW, will  
be some towering cumuli. 4 pm  
bright sun high small cumulus &  
89° in sun. 6:05 alto-cumulus, 7° breezy

11 June 9:18 = 57° clear, breezy, with a  
few small chunks of fog. Clear at 6 am  
10:20 windy, many small ill formed  
cumuli & 59° 2:02 same but more  
smaller cumulus, 64° Occ. strong  
gusts of wind. 3:27 = 67°, towering clouds  
to E & W. 7:11 - 76° clear, few cumuli & wind

15 June returned from Meridocino at 1:16.  
all the way (esp from Liverdale. S)  
heavy dark bottom cumuli 95% +  
cover, very dark N bay & S. East Bay  
60° 3:43 = 78° mostly clear, few cumuli.

16 June clear, occ. breeze 59° at 9:44 am  
1:33 clear, 63° slight breeze

17 June fog to 8:30. 9:00 = 59°, 43° clear.  
12:45 = 63° cirrus to SW. 2:24 = 67° more  
sweeping cirrus.

18 June 9:57 = 59° Fog. 12:56 Fog, occ. sun  
65° 3:04 67° windy fog coming in. 4:43 = 85°  
having bright sun, a breeze. 6:18 = 63° fog &  
diffuse sun. calm

19 June fog, 9:21 = 59° 9:46 clearing, dull  
sun. 10:17 practically clear, rather hazy  
sun, 60° 4:21 = 83° hazy clear, fog to W.

20 June clear. 9:32 59° 1:17 clear light  
breeze, 64° 3:25 = 69° (? in sun) whisp of fog  
3:50 10M = 79° by 7 - fog again - 58°



Christman  
1992

Mendo. Co. Journal

11 June

Left home 6:21 am 1072; Petaluma  
at 7; Old Cape 7:49 am 1159 (85 miles)  
L.B.V. at 10 am 1225 (153)

BLC-K & AC were at "La Bella Vista" from  
Mendo. Co. R.S. It is just a house the house  
is at 1100 5th where the road just  
straightens out. It's a 25' x 40'  $\pm$  barn  
like bldg. in narrow lane - an almost  
right next to a white "gallery". A small  
parking area (2+ cars - small) gate -  
a large, eccentric nice garden 70' x 50'  $\pm$   
very weathered no finish! Faces SE  
to Van D. R. Bay, etc (night flashes  
from 2 light houses to SE) The  
interior, a 2 who likes to BUC, small  
etc K-N. Lots of french stuff 4 or 5  
mules! Well laid out, 2 BR, 2 Baths  
& a charming white room up stairs -  
that impressed me - they are from  
St. Louis - lots of photos of 2 boys  
& a charming daughter & all saw  
the canning & Europe! Very really  
short glasses: "It's better to live  
rich than die rich." Birds: lots  
of allen hummers, scrub jay - 3  
ravens once, heard a P-5 flicker,  
many barn Swallows & few cliff  
& perhaps few V-G S. On the 13th 1  
saw many more. The disadvantage  
is traffic noise 40-60' from bedroom.  
Obviously they haven't cheap & enhanced  
50 160+ a night. The garden is nice  
but no named birds! Not one! No  
butterflies either.



Christman  
1992

12 June

Headlands/Mendo. Bl. oystercatcher (1),  
Pigeon guillemot (1), Northern  
Harrier (1). ♂ gray, gold finch (am.  
1 or 2 yellow ones in grass weeds,  
cliff Swallows / nesting on sea  
cliffs).

Mendo - on 15th am 2 large terns,  
lots of harsh calls, over head at  
art center

14th = 4 ravens about cypressess,  
N of art center, harsh cawks & 1 yap  
(?). Also 3 law at La Bolla Vista.

Swallows at LBV: Barn, mud  
cliff (plus perhaps a few V-g).

lots of Brewer blackbirds. 1 Osprey  
lots of Allen Hummers, a few  
Scrub jays

Trip home: 10 am 1273 (hab. via  
combi). Arrived at 1:26 = 156 mi  
Boserville at 11 am. Arrived 12:24,



Christina  
1992

Journal

283

21 June, del Norte St, Berkeley, Alameda Co  
Fog. 59° at 9:50. 9:47 1/2 clear, 61°.

caught a Fox Sq. first thing in am release  
Bob. Hart center. 2pm ± caught another  
Fox Sq - took it up above J. Nicks Park  
Fog most of afternoon, 5:47-65°

22 June Fog, a bit broken, 60° at 9:42  
11:06 1/4 fog, light breeze & 62° 1:04 windy  
still bits of fog, 64° 6:18-64° Fog back.

23 June Fog, broke up a bit by 9:30,  
at 9:51 = 64° stratus from E, dull sun,  
calm, 11:23 overcast & high stratus, 65°  
12:24 = 68° same 4:12 = 67° solid overcast  
of stratus with grey decks, calm.

24 June about 1 am several flashes  
of lightning, heard no thunder.  
a.m. is fog, 10:15 = 62° calm caught  
a Fox Sq. yesterday late, this a.m. to  
John Rinke Park 11:14 few holes in fog  
& 67° dull sun. 12:01 sun, partly cloudy to  
S - NW, 65° breezy. 2:30 clear, slight breeze  
71° in shade 3:48 = 64° 5:56 fog returning, 75°

25 June overcast clouds 9:11 = 61° 12:24 = 78°  
overcast breezy 1:08 clear & almost windy.  
2:44 windy clear & 70° in shade. 6:14 = 85°

26 June Fog, calm 9:17 = 62° 1:50 = 69° clear  
breezy 3:52 = 87° clear, breezy.

27 June 10 am 62° Fog. 11:24 = 65° dull sun,  
partly clear in small patches, bits of fog, hi  
filmy cirrus & darker stratus to W.  
1:06 clear, windy, 68°, cirrus overcast to W.  
2:02 pm wind, cirrus all clear 69° 4 pm = 80°  
windy 7/8 hazy overcast little activity, haze  
4:14 = 86° in sun, hazy clear, wind cirrus to W  
4:54 = 84° = 2 Oak Yuccas (first for seedling)



Christman  
1992

Journal

284

28 June, del. to Fort. Berkeley, Alameda Co., CA

a variety of all cloud types 10:42 63°

10:47 the first Foxg. I've seen since

the kind was 're-manned' last week.

3:03 overcast breezy 69° lighter to W.

3:40 now overcast. winds lighter. still to W.

1 spot of dull blue & winter day 4:17

edge to clouds - clear to W. - 80° dull sun

29 June 9:27 clouds with over light

sprinkles. 65° 1:20 darker overcast, wind

in again sprinkles 2:49 now a rain

3:49 harder again, 63° 3:58 almost a down

pour. 4:45 now a fairly gentle persis

tant rain - like winter! 1" puddles

on landing. 6:54 light rain, 59°

30 June cloudy 59° 2:49:52 am a few

drops have fallen - a good soaking

rain. 1:38 windy clear, 67° breezy,

rafts of cumuli to W. sunny.

1 July clear with drunks of fog; 10:07 64°

2 July 6:59 am fog, 58° calm. Sun out

about 11:30; 12:40 67°

3 July Fog. first sun 9:15 at 63°. 10:20

dull sun, 64° high cirrus overhead, cirrus

overcast to W. 11:25 becoming overcast.

1:49 dull sun overcast, over breeze 70°

2:30 see 2 Foxg. 3:32 hole in fog, sun, wind

broken high cirrus 69°

5 July back from Pt. Ahout noon clear

clear, few breezes

6 July clear, 9:36 = 65° stratus (S-N) cirrus

7 July Fog; pretty clear by 9:30 = 64°

10:02 clear, 65° 3:40 clear, a breeze 9:30 in sun.

8 July low fog (down to Indian Rock), 60° - 8:20

clear by 9:30; 10: = 63° 1:01 = 77° few cirrus, 100° at 4:15

in sun.



Christman  
1992

# Journal

285

8 July, del Norte St, Berkeley, Alameda Co, California  
6:02 = 91° in sun, thin cirrus overcast

9 July clear, with a few cirrus, 11:07: 75° H<sub>2</sub>O  
day. Brian up

10 July bright sun with cirrus  
streamers to N. 64° at 10 am. 2:04 = 72  
more cirrus.

11 July 9:55 = 64° Fog, calm. 11:45 still fog  
a lot of bird activity esp. 10+ finches  
& warble sp., towhees! 12:37 nice windy  
67° fog persists! 1:44 dull sun, wind  
opening hazy blue & dull stratus. 2:04  
dull sun, fog almost disappeared. 4:16 <sup>nick</sup> 72°  
6:07 = 68° fog had in, breezy.

12 July Fog, calm, 67° at 8:56 am. 10:13 Fog  
breaking up, sun 63°

13 July 9:24 am Fog, 67°. 10:40 clearing, sun  
out 65°

14 July 9:57 am Fog breaking up slowly,  
64° sunny.

15 July clear with bits of fog to NW at  
10 am = 63° 8:40 almost dark fog coming  
in @ 61° nice warm calm day.

16 July Fog 10 am caught a (♀) Fat Eg.  
just happened to be talking to Jones  
at MVL - he wanted it, so he came  
by in the (blue) Blazer & took it to  
Mesa.

18 July Fog. 10:15 - few holes in fog, 67° dull  
sun. 4:57 clear, warm (94°) breezy = no  
bird activity, plenty of food! (1 ♂ H. Finch  
very at D-4). Then 2 or 3 doves.

19 July Fog, clearing & sun by 10:40 am  
2:42 bright sun, very breezy - 71° 6:04 =  
81° windy no fog, bright sun.



Christman  
1992

Journal

226.

20 July, del Norte St, Berkeley, CA  
scattered fog, sun + 63°

21 July clear (minor clouds, fog) 9:25 =  
62°, slight breeze. 6:41 - 7:30 clear breeze

22 July clear, 61° at 9:28 am 1:38 - 71° clear  
slight breeze. 2 Fox Sq. appeared  
out of Fittos up line to ledge -  
a big chase.

23 July, clear, calm 65° at 10 am. <sup>day</sup> warm

24 July Fog, clear by 9 am = 61° calm

25 July Fog, wind & 58° at 10:22 am

clearing between 12 & 1. 1:24 = 64° 4 pm  
= 91° in sun. small pieces of fog returning  
6:17 hazy clear, 82° calm.

27 July Fog, clearing by 9:30 am.

28 July Fog, clear by 9:30. 10:10 = 60°  
12:37 = 63°

29 July Fog, 10:54 am = 62° 1:02 still fog  
67° 2:41 clear, 65° breezy.

30 July Fog 10 am = 59° 12:10 = 63°; 3:17 =  
clear, 67° breezy. Talked to Anne C.

2 weeks ago; she had been in  
Spachen, Wash. a very early fall there.  
6:51 = 79° in sun, clear, breezy

31 July Fog, almost clear by 9:30 = 59°

1:03 clear, cirrus to w. slight breeze = 65°

3:31 = 73° more cirrus, w. above clouds.

1 Aug Fog, 9:33 full sun, 61° 10:33 more dull  
sun, 1/2 clear, 1/2 fog

3 Aug Fog; 9:15 open to N-W & 58° cool  
night. 11:19 almost clear of fog & 59°

4 Aug clear 55° at 8 am; 10:30 = 63°  
with few breezes. 3:29 clear, breeze, 75°

5 Aug Fog, 10:08 = 63° 12:14 = 65° 1/2 fog, sun  
That report July was a record high temp. month



Christman  
1942

# Journal

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6 Aug. Del Norte St. Berkeley Alameda St.  
Fog 100m - 61° 10:30 almost clear, sunny  
same temp. 12:24 = 61°, lines of cirrus  
to W (S to N)

7 Aug 9:17 = 59° & Fog. 3pm sunny, fog  
returning, 68° 3:30 bank of fog appro-  
aching - solid! no breeze. 4:15 Fog  
S to N to W, windy = 38° in sun.

8 Aug. Fog, clear by 9 = 62° little bird  
activity since 11am & now bright clear  
= 76° very slight breeze

9 Aug thin wispy fog to 8:30 clear, calm  
all day 3:46 = 93°!

10 Aug at 7:15 am low thin fog, clear with  
high cirrus by 9 - 63° 2:15 77° in shade  
more cirrus. 7:14 = 75° cirrus, few stratus

11 Aug Fog to 8:30 ± clear, few cirrus  
6:10 at 9:14 3:38 = 76° clear, but few

small chunks of fog to N. more to W.  
6:09 - 73° Fog low to W; make several stratus  
5 - N.

12 Aug Fog, 9:23 am - 62° 4pm 88° Clear, but  
fog bank to W & hits canyon in overhead

13 Aug 9:51 am - 63° Fog

14 Aug Fog, 9:33 am 61°. 10:30 Sun, spot  
of blue. 2pm 69° cirrus & high stratus. 3:56  
hazy sun. 81° more cirrus ill formed stratus  
6:03 - 69° almost solid stratus overcast.

15 Aug cumulo - stratus cover 75% ±

9:24 = 65° 4:08 almost clear - 1 patch, 93°. 6:35

- clear, bright, 91°

16 Aug. Fog to ± 9 now clear at 10:11 = 63°

17 Aug Fog to 10 ± 10:40 = 60°

18 Aug Fog, sun from E at 9 am - 59°. 10 am  
59° almost clear, sunny.



Christman  
1992

Journal

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19 Aug. Del Norte St. Berkeley, CA  
Fog, clear by 9 am. 7:55 - 59°

20 Aug 9:12 - 59° Fog. 9:48 sun, clearing

21 Aug 7 am clear, 7:30 - 8:30 scattered  
fog. 9:17 clear, cool w. breeze - 57°  
10:39 more of a breeze; 62°

22 Aug. 9:15 am clear, calm, 58°. 3 pm - 74°  
in shade, clear, slight breeze. 3:20 ? 1  
large butterfly - ? Monarch? well over  
road to SE. 3:31 high haze - off tan breeze  
& 79°. 3:42 - 85° 5:56 hazy (smoke to N) - 78°

23 Aug hazy clear, 10:31 - 67°. 1:56 clear, 76°  
4:12 flew thin cirrus to NW; 98°

24 Aug clear with thin cirrus SW to NE  
59°.

25 Aug. Fog - high, thin. 9:22 - 60° clear

26 Aug hazy clear, 10 am - 61°. 3:41 - 77°

27 Aug. 9:15 clear, haze, fog to 9 ±. 57°

28 Aug fog, 9:46 - 60°. 12:12 pm darker fog  
64°. 12:49 first sun 66°

29 Aug. cloudy briefly heavy sprinkles  
at 6 ± am 9:15 57°. 11:04 - 63° same  
wind. now. 11:17 first sun, same blue

to SW., less fog with cumulus/stratus.

2:06 more cumulus, some large & dark, 63°

5:57 - 65° bit of sun, overcast, breezes.

30 Aug. 12:38 overcast, breezes 57 - 65°

3:55 - 62°, slight breeze, overcast

31 Aug. 10:04 - 61° fog. clear by noon, 64°

5:31 sunning, few cirrus - 81°

1 Sept 9:47 am fog, 62° 10:22 complete  
overcast - half sky but occ. sun from E

11:13 just about clear. 6:30 - 78° high cirrus/cumulus

2 Sept 11:21 am fog, 63°. 12:10 - 1/2 clear. 1:16

65° new cirrus from SW



Christman  
1992

Journal

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2 Sept, ~~all the way to SE~~ ~~to SE~~ ~~to SE~~ ~~to SE~~ ~~to SE~~  
1:22 low 1 monarch ~~fast~~ from NW  
and ridge to SE. First sun, clear  
6pm - 68° clear, breezy, wedge of water.

3 Sept. clear, except fog over hills.  
9:28 - 58° 11am - patchy fog 630 1:29 - 67°  
strong breezes, ill farmed cypripediums.

5 Sept 10:45 am clear with high cirrus  
68° 12:40 high haze, dull sun, 76°

8 Sept clear 59° at 9:34 am 4:14 almost  
no bird activity today, food out. 91° clear  
calm.

9 Sept Fog, 10:16 - 61° calm. 11:05 am <sup>now</sup> sun.

5:30 Fog back. 6:18 - 59° very light breeze

10 Sept low clouds, digglo at 8 am 60° at  
10:04 am. 1 pm still clouds - 63° 3:34 -

73° a breeze past clear rest fog. 6:02  
slight breeze, 71°, fog soaring in to N.

11 Sept patchy fog (- 30%) few cirrus/  
clear. 9:23 - 61° 10:18 bank of fog from

SE; 63° dull sun. 10:13 Monarch from  
low flying about rap - faded in sun.

5:54 clear, with a few chunks of fog - 76°

12 Sept fog to 10:15 am, 1/2 clear, 10:30 - 62°  
3:18 clear, calm, 71°

13 Sept clear with feathery cirrus 10:31 - 68°  
4:22 - 81° dull sun - lots of cirrus

14 Sept. scattered fog; 9:24 - 55°

15 Sept " " 9:19 - 56°

16 Sept Fog, 11:03 - 61° 2:14 clear & 63°

17 Sept Fog, 10:14 - 59° 1 pm clear, 61°

18 Sept 11 am haze clear, 61° 1 Monarch to  
SE 2:25 another Monarch. 6:14 fog in, 61°

21 Sept. fairly low fog, 10 am - 57° 11:21 dull sun  
Fog & 63°. clear by noon; 1:14 - 64° 3:45 - 78° clear

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22 Sept, del Norte St, Berkeley, Alameda Co CA  
clouds to noon (= 63°); lots of fog with  
wires & stratus. 12:58 - 66° sunny with  
streamers of strato-cumulus. 1:07  
1 Manarch W to E, high over house.  
6:28 Fog in, 67° no wind.

23 Sept Fog clearing 10:45 = 63° 3 pm  
clear, 69°

24 Sept 12:10 clear a.m. - 68°

25 Sept 8 am clear & 57°; 9:37 - 64° calm

12:35 1 Manarch up & over ab to SE.

12:40 - 73° calm.

26 Sept 9:48 am clear, E. wind 75° <sup>strong</sup> <sup>Hot</sup> <sub>all</sub>

10:20 2 Manarchs over house. 6:30 = 80° day

27 Sept clear & Hot all day.

28 Sept 7 low fog clearing 8:30; 9:16

59° and 1 Manarch over house.

9:52 1 Manarch to SE. 10:42 - 1 M to NW

12:36 1 Man. to E. 2 pm - 75° cirrus from S

29 Sept. Fog with cumulus (high) above

10:20 - 59° 10:52 same sun & first

Manarch of day. 12:07 solid overcast

63° Fog Sq. fringing in canopy of oak.

2:54 clear with few cirrus slight breeze

67°

30 Sept cloudy, light rain during night

9:22 - 67° 10:15 same blue to SW, 68°. 3:22

clear, calm & 74° cleared by noon. 5:pm

overcast, 5:35 - 67°

1 Oct. light sprinkles during night;

overcast 9:30 - 64° very light drizzle

starts. 10:45 slightly heavier, 61° 12:13 - 65°

brighter

2 Oct cloudy, mixed; 9:55 - 61°. 1:24 windy

66° 1/2 clouds & 1 Manarch to E.



Waistman  
1992

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2 Sept, del Norte St., Berkeley, Alameda Co, CA  
3pm - 67° just about clear. Fox Sq.  
fading in aab 4:03 - 79° in sun, windy  
5:30 + overcast (fog?)

3 Oct clear, dew; 10:45 - 64° 2 Fox Sq in  
aab - nest:

4 Oct clear & hot to SF

5 Oct clear; 10:31 - 64° calm.

2:16 - 77° in shade, 1 Monarch sailed  
over aab to N

6 Oct. clear, 9:20 - 63° 4:11 in sun - 107°!

6:16 clear, 8P sun low. Little activity

7 Oct clear HOT ALL DAY sunset 6:40. 77°

9 Oct 9:47 am clear, 63° Monarch over  
house to E.

10 Oct clear; 2:55 - 95°.

Last monarch HOT! clear in a.m.

11 Oct low fog which burnt off by  
9 am; 9:38 - 57° warm pm

13 Oct Fog 10:18 few small holes 60°  
10:24 1 Monarch to SE

14 Oct overcast 9:58 am 58° 3 - clear  
with cirrus, 64°

15 Oct 9:28 am fog, 57° more in; they  
are flying down to bushes in del Norte  
court - feeding. This is first winter  
behavior. ~~to~~ = waving first  
dell sun at 10:45. 1:42 hazy clear with

thin cirrus, slight breeze, 65° 3:15 -  
65° complete high cirrus, diffuse sun.

6 Shatus dull sun, 59°.

16 Oct clear, bits of fog at 8; at 9:15 a few  
cirrus & 56°. 3:24 1 Monarch over H  
to NW - 69° clear & calm.

17 Oct clear with cirrus, 11:55 - 63°



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- 17 Oct, Berkeley, Alameda Co. Cal  
1:19 more cirrus; 70° in shade & 1  
Monarch to E. 3:12 now almost  
solid stratus 69°
- 18 Oct. Sunday busy all day; Fog to 12:30  
then 1/2 to + with clouds 6:30 1/2 clear
- 19 Oct. Fog, 9:30-600; 11:16-67° 1 small  
hawk in fog. a Hawk day at 11 am  
11:16 1 finish in top of NW elm - very  
quiet. 1:20 clear, slight breeze, 68° 4:17  
clear, bright 78° hawk of fog - 5 to NW.
- 20 Oct. Fog, 9:56-64° few big pieces of  
blue - 2 jays are only birds active  
for an hour! 10:23 more fog - 1 Monarch  
from N down over arb. 2:36 sun & more  
clouds, 75°. 10:16 brief heavy shower (2)
- 21 Oct. scattered cumulus, 9:05 59°  
12:07 - 74° fewer clouds.
- 22 Oct. 7:30-50°, 9:54-57° Clear,  
sprinkling no wind. 10:49 1 Monarch  
over house.
- 23 Oct. 9:31 clear, calm, 57° 2:30-79°
- 24 Oct. clear at 8:30 & 57° I. Then stratus  
for SE; a general overcast at 1 & 76°  
3:51 - few clouds, hazy clear, 79°.
- 25 OCT cool & fog all day STANDARD T.
- 26 OCT 9:05 - 64° cirrus & stratus, sun,  
3 pm clear warm, few cirrus & cumulus, 84°
- 27 Oct. overcast, 2:54 hazy clear, 62°  
1:16, 64° (cool) was clear to 12:30 now  
increasing low patchy fog.
- 28 Oct. cloudy 9:41 - 57° cool, calm.  
1:01 very light sprinkle begins, 57°
- 29 Oct. rain during night. 10:59 - 55° rain  
continues light to occ. heavy, occ wind



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16 Nov 40° at 8:10 clear; then some  
cirrus/stratus. 10:34° = 55° 1:30 - 60° has  
been pretty clear, now clouds moving  
in to W & fog ahead.



Christman  
1992

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17 Nov, all white st, Berkeley, ~~clear~~ <sup>blacked</sup> clouds to 9:30 +, clearing 12:05. 59°

19 Nov. light rain at 7:30 + & 50° ±  
9:54 - 53° rain lighter. it continued  
to 11:30 = .25" 1:21 - 59° solid  
cloud cover & no rain.

20 Nov 9:53 = 48° sparkling clear with  
occ. breezes.

21 Nov. 10:11 - 53° cirrus & rippling stratus  
calm 4:13 calm overcast, - 54°

22 Nov. rain during night. 9:45 - 51°  
with scattered sun & large cloud  
masses, calm. RAINFALL at 10 am = .10"

23 Nov clear, calm 42° at 8; 50° at 10:12  
10:45 cirrus cover coming in from SW

24 Nov. overcast, windy at 9:44 = 47°  
12:43 = 54° calm house cold.

25 Nov overcast, cold & windy. 9:40 = 51°F  
with few blue holes; cirrus & fluffy stratus.

28 Nov 9:am clear, 49°; 11:39 - 57° calm  
4:12 hazy have seen few cirrus - 60°

30 Nov 49° at 9:45 high thin cirrus.

1 Dec High clouds all day variable.

2 Dec Light rain started at dawn.

9:33 = 47° 11:10 rain has stopped & some  
pale blue to SW. - 49° 3 pm = 48°, 1/2 hr of  
a heavier than normal rain.

RAINFALL = .45" at 4 pm

3:19 sun & broken clouds. 6:18 - 49° all temps  
are outside. also 3 strokes of lightning

far to SW no thunder. (MORE RAIN = 40)

3 Dec clear, cold (45°) & wind at 8:30; fog  
over hills. 10:15 - 50°, wind, fog (?) overhead  
tho broken. 2:34 clear, occ. breezes, 62°

4:48 clear, calm, 51° sun is down.



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1992

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5 Dec

off & an ill formed cumulus 45°-50°  
at 2 pm.

6 Dec Rain started at 10 pm last night  
at 9 am today = .43" 10:26 no rain  
overcast, a bit of sun. at 4:30 = .41"  
heavy rain in afternoon.

7 Dec. rain during night. clear with occ.  
cumulus, 45° at 9:33 am. since late  
yesterday .61" 3:22 - 51° big cumulus

8 Dec overcast, occ. wind, 9:34: 50° from  
rain starts - light, & 50°. 3:28 steady  
rain - 51° everything soaked outside

9 Dec rain all night {RAINFALL = 1.71"

9:38 - 56° overcast, no rain night now.

11:10 light rain again. 2:53 occ. light  
sprinkles, 59° then occ. sun, 3:21 opening  
to SW 3:44 moderate rain. rain over  
night.

10 Dec. overcast sprinkles {RAIN = .72

1:41 a driving heavy rain - wind - this  
was big. Then light rain.

11 Dec rain during night stopped by Tan  
at 10. (= .60" RAIN) then sun scattered  
clouds. 3:04 almost clear, 57° at 1 ± a  
quick violent down pour, a 100 yds  
wide! (on Galano ave)

12 Dec bright, clear, wet & 39° at 8 am, 44° at  
10 am.

14 Dec clear cold 50° at 10. 4:19 wispy

cirrus, 57° a quiet day - cool at that.

15 Dec clear all day: 3:56 - 57° clouds to SW -  
massive on top - approaching.

16 Dec clear & some filmy cirrus, 9:45 - 44°  
2:17 haze, 54°



Christmas  
1992-93

Journal

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17 Dec.

showers during night & 9:20-9:40 =

.18 1:07 - 47° light shower. 2:40  
clearing after shower; earlier; clouds  
from N, 49°. 3:26 99% clear; 51° breezy.

18 Dec clear, calm, 39° at 9:29 am.

19 Dec clear calm 43° at 10:40

21 Dec yesterday & today - overcast  
- cool. 10 am = 49° calm. by noon  
nearly clear. 1:20 of a highlands, 53°  
1:46 now overcast, occ. wind. 3:39  
clear again, 57°.

22 Dec clear, heavy dew, calm. 1:26  
48° 3:24 clear, 65°. amazingly quiet day

23 Dec wind during night & into  
am 10:57 - 53° clear.

24 Dec clear, calm & cold - 38°  
at 8 am. clear.

26 Dec overcast all day, cool. Back  
from Palo Alto!

27 Dec overcast all day.

28 Dec rain by 3 a.m. light rain  
all day, several heavy showers.

29 Dec clear - scattered cumulus at 8  
overcast & wind at 10:44. 12:30 brief  
hale storm.

30 Dec clear, clouds on horizon  
11:30 - 47°

31 Dec overcast, first sprinkles 9:30 - Ended  
3:20 heavier drizzle overcast, 54° some  
wind.

1 Jan 93 rain off & on 1.49"

2 Jan clear & 40° at 8; by 9 spotty  
fog. 4:30 - 45° hazy clear, thin cirrus clouds

4 Jan as yesterday 34° at 8 am clear. to  
u

Handwritten text, likely a letter or document, written in cursive script. The text is heavily faded and illegible due to the quality of the scan. The handwriting is dense and fills most of the page.

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1993

Journal

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5 Jan.

43° at 9:48, overcast

6 Jan light rain & lots of wind  
during night at 9 am = .27"  
cold 11:45 - 41° min all day -

7 Jan broken overcast, 53° at 9:50  
RAINFALL = 1.45" 11:15 sprinkles  
start.

8 Jan overcast, 48° at 10 am.

RAINFALL = .530 at 11 am.

9 Jan. scattered clouds & sun & showers  
10 am - 49° RAINF = .10" broken  
sleeps all afternoon no rain since 9 am

10 Jan. clear, 38° at 8:30 am calm  
clouds, including thunderheads  
to W & NW. Won to 2:12 clouds, then to  
2:24 heavy shower; broken clouds  
12 Jan dull overcast, 9:28 - 39° by noon  
mist, heavy rain & cold - continues  
thru night

13 Jan lightish steady rain, not as  
cold 9:13 - 52° RAINFALL at 11:30 = 3.48  
off & on showers all afternoon, some  
essential, 6 pm - 54° almost boiling!

14 Jan scattered cumuli am, clear after  
noon, 55° RAINFALL - 1.18" since  
yesterday

16 Jan clear, 48° at 9; 10:50 thin cirrus  
no rain RAINFALL 1.11"

17 Jan rain off & on night to night

18 Jan light sprinkles, 9:35 am: 47°  
RAINFALL at 9:45 = .28"

19 Jan overcast, cool all day. 3:27 - 53°

20 Jan a moderate, drenching rain since  
5 pm yesterday. 10:09 - 52° heavy rain pm

Handwritten text, likely a letter or document, written in cursive script. The text is heavily faded and illegible due to poor scan quality. The page appears to be a single sheet of paper with a vertical fold or crease visible down the center. The handwriting is dense and fills most of the page.

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1993

Journal

298

21 Jan.

overcast, 10:42 - 5:30 RAINFALL - .38"  
since last.

[

22 Jan. clear with ripply cirrus 10:17 -  
480

23 Jan clear same cirrus 11:13 - 490

24 Jan clear with thin cirrus. 12:52 - 530

25 Jan clear, cool, 10:16 - 500

26 Jan clear, 9:40 - 470

27 Jan. clear (rolling stratus to SE  
early. 400 at 8 am

28 Jan hazy clear, 460 at 10:07 am.

29 Jan clouds strato cumulus in am. pm  
clear, calm in pm. wind started 3:30

30 Jan. wind all night; clear, 10 am  
= 540 wind stopped about noon

31 Jan clear 10:23 - 550 calm 5:29  
clouds - stringy cirrus from W; = 530

1 Feb. clear, clouds to W. 8:30 - 420; 9:42 - 480  
calm. 11:05 filmy cirrus to W, almost  
overhead. 12:23 complete cirrus overcast  
with no shadows. 2:33 2 Fox Sg. thru NW  
elgn to my covered pole across St.  
Last year a nest was built there.

2:52 - 650 sunny almost clear; calm

2 Feb. clear with thin cirrus. 11:54 - 570  
with approaching bank of clouds. 4:03 - 560  
complete stratus cover, calm; no activity

3 Feb overcast, 10:14 - 550 high holes in  
overcast sky, cool. Wind & clouds all night

4 Feb fairly clear after 8 am 10:10 - 550  
few high cirrus up to 1:50 sun & wispy clouds  
now solid dull overcast.

5 Feb rain 12 to 3 am none since, 10:11 - 570



5 Feb

rain gauge fell out - no measurement  
so T (probably  $.15 \pm$ ) Sun & scattered  
clouds all after noon. 5:31 -  $58^{\circ}$  overcast

6 Feb. variable cirrus-stratus, same sun,  
10:29.  $57^{\circ}$  2:19 uniform overcast  $66^{\circ}$  F

7 Feb overcast, no rain to Palo Alto at 8 am

8 Feb rain all night in P.A. back by  
12:30 rain most of way up. RAINFALL

here at 3 pm =  $.77''$  still overcast  
& breezy at 3:30. 5:31 no rain,  $55^{\circ}$  overcast.

9 Feb same time about dawn the loud  
honking of geese, low = Canada Geese  
rain during night RAINFALL =  $.14 \pm''$   
am = scattered cumuli. 10:30 light rain.

10 Feb scattered clouds, 9:35 -  $50^{\circ}$ ,

RAINFALL after yesterday =  $.29''$

11:08 dull sun, almost complete overcast.

5 pm - light rain starts. 6:14 -  $49^{\circ}$

light rain at night RAINFALL  $.12''$

11 Feb clear at 8 pm. 11 am cirrus &  
stray stratus -  $53^{\circ}$

12 Feb clear early Misc cumuli, etc. since

13 Feb Saturday clear, cool most of day.

14 Feb 9 am clear, calm,  $45^{\circ}$  Beautiful  
day! into 70's outside 5:30 -  $54^{\circ}$

15 Feb overcast (? fog from SW) then  
scattered clouds, clear & breezy by 11:30  
-  $54^{\circ}$

16 Feb cloudy, 9:46 -  $49^{\circ}$  calm, light rain  
at 3:24, stopped, again at 5:30

17 Feb rain all night, 9:38 -  $47^{\circ}$  occ.

breezes light rain in a.m. moderate  
rain all day, cold ( $54^{\circ}$  at 5:30)  $\frac{1}{2}''$  RAIN  $\pm$

18 Feb lite RAIN  $.48''$  to 10 am over night 10:49  
am



18 Feb

rain (lite) off & on, 10 min. sun!  
afternoon scattered clouds. 10 pm 10 min  
heavy rain & + flashes of lightning  
& 2 thunders 8 sec & 10 sec.

19 Feb rain during night, esp 3:40  
with 1 lightning RAINFALL - .69

at 9 am - 52° overcast, dark. at 10:  
30 am, 5 min. + wind & rain, then a  
sun out, increasing clouds to 3 pm  
then darker, strong wind & driving  
wind.

20 Feb 3:04 scattered cumulus & wind  
all day - now 58° 1 pm was 52°  
RAIN since yesterday - .46" (none today)

3:28 sprinkles start. 3:49 sun out, now  
long streaks of cirrus

21 Feb Rain overnight =

scattered clouds, 10:42 am overcast calm &  
55°. 12:30 very lite rain some blue sky.

22 Feb overcast, light sprinkle. 10:06 =  
49°. 10:50 consistent light rain, all is  
wet again.

23 Feb at 8:30 1/2 sky clear, by 9 light rain  
9:57 steady medium rain, 48° 10:01  
heavier rain, lightning WSW, 7 sec. Thunder.  
11:12 patch of blue to W, dull sun, no rain.  
RAINFALL =

24 Feb mostly clear, few cirrus, 9 =  
40°; 11:13 - 46°.

25 Feb scattered clouds & overcast  
all day. light rain 5:30 RAINFALL =

26 Feb light rain stopped at 7:30 -  
RAINFALL .10" 42 at 8 am.

27 Feb clear, calm 42° at 8:30; 10:42 - 50°



27 Feb.

5:28 clear, calm, 55°

28 Feb. clear all day

1 Mar 48° at 8:30 with scattered fluffy clouds (? fog) clearing 9:30 (58°)  
12:04 hazy sun, high cirrus; 55°  
Davy tree service cut away from pole across st (my electricity). 6:06 scattered stratus, 52°

2 Mar high cirrus 10 am - 50° <sup>sun</sup> clear

3 Mar rain (T) during night. cloudy

am. 51° at 8:30, 10:32. 56° noon -

leaving fluffy clouds, 58° Yesterday  
Davy tree service (under igloo of city of Berb.) trimmed away from the power pole across street - so goes 1 sq. west. after a on & off cloudy day - 6:14 clear, calm, 57° little activity

4 Mar few cirrus/clear 11:30. 56° The shade is cool, sun is warm! 4:57 dull sun, hazy clear, some cirrus, 67° outside

5 Mar clear beautiful day - 1:23 - 65° outside

5:54 - 61° calm clear. quiet day

6 Mar clear 9:36 am - 60°. 6 pm clear calm, 67° at sunset. acc. breezes. Nice!

7 Mar 9:40 - 59° hazy clear, calm. quiet.

8 Mar Fog to 9:30, then hazy clear with few cirrus. Fog horns last night 2 of them  
9:42 - 54°

9 Mar overcast (no fog horns at night) 9:10  
few holes of blue, 9:30 filtered sun more blue & 56°

10 Mar dull overcast, 10:37 - 58° 1:06 hazy fog, cirrus & sun, 64° 3:51 fog in 90%, but sun, 65°



11 Mar.

fog at 8:30 clear by 10. - 57°

12 Mar. clear in am then bank of stratus to w. by noon. afternoon dull overcast & no sun. 3:22 - 72°! outside, cool in.

13 Mar. increasing clouds all day from cirrus to 6 (50) of low stratus.

14 Mar. light rain overnight = (T)

10:46 - 60° sun, fluffy cumulus.

5:30 complete overcast after sun - p.m.

15 Mar. variable clouds all day

16 Mar. overcast 1:42 - 62° very light sprinkle started. By 4 a respectable RAIN

17 Mar. rain stopped ± 5 am - 1.00 RAIN

scattered clouds, 9:30 58° 12:40 lite

RAIN & 63° first rain since laylite

1:23 shame. strange only towhees

in today - no finches or even chickadees

1:40 same blue holes & bright diffuse

lite.

18 Mar. RAIN during night =

light am. beautiful fluffy cumuli

10:20 - 59°

19 Mar. overcast all day, cool

20 Mar. clear, 9:45 - 55° 2:26 - 67° with

hazy sun - lots of high feathering cirrus.

21 Mar. Fog; clearing & sun at 11:30 -

62° cirrus in pm. 6:22 - 58°

22 Mar. fog, clear by 9 am - 54° 6:02 huge

scans of cirrus S to N, off to W. = 59°

23 Mar. light rain in a.m. - started ± 5:30.

9 am = 57° light R all day - most of night

24 Mar. clear, fluffy cumuli RAIN = 62°

9:14 - 51° cirrus overcast started at

2 pm. at 3:45 - 62° 6:02 a few stratus.



Christman  
1993

Journal

303

25 Mar.

nearly clear early, 10:25 cumulus  
from S, first spotty now darker & great-  
er cover, no sun & 56°. 3:36 an in-  
consistent overcast of high stratus.  
at 2 pm same huge cumuli dark,  
etc. no rain now - 55°, occ gusts of  
wind - a rather slow day - reading  
"Ravenous Winter" for 2nd time.

5:15 light rain =

26 Mar. variable clouds, sunny, 12:13  
= 57° (RAIN last night = .22)

1:30 lots of clouds & very light sprinkle  
it stopped 2:1; scattered stratus at  
5:45 = 53°

27 Mar. dull overcast no rain; 8 am  
50°; 10:35 - 58° occ wind. 12:03 a  
light rain started at 11:45 - street now  
wet. Rain stopped about 2 pm & dried for  
while. Overcast & 48° at 3:53  
RAIN = .40"

28 Mar. variable clouds 12:50. 57°  
almost clear, few small cumuli.

5:44 clear, windy, 58° fog? to W.

29 Mar. fog, 10 am - 55° calm, occ. sun.

30 Mar. hazy clear, 10:11 - 57°

31 Mar. clouds, mixed all day. 63° at  
3:16 with acc. wind. light RAIN by 5:30

1 Apr. light rain at 7 am. broken clouds  
after 8 am. (RAIN at noon = .41")

brief shower 10:20. almost clear at 5:37

2 Apr. sunny in am increasing dull thin  
overcast 3:37 - 68°

5 Apr. hazy from E also also windy clear  
afternoon - no birds. 5:46 - 61°, clear wind



Christenon  
1993

Journal

304

6 Apr

pretty clear all day, cool house  
tho,  $79^{\circ}$  outside in sun at 4:15 -  
a bank of stratus an entire horizon.  
at noon, a number of thunderheads  
NW & E. 4:15 approaching (?) bank of  
stratus to W. breezes.

7 Apr clear - warm all day (house cool)  
5:53 -  $67^{\circ}$  calm. First Real Spring day!

8 Apr first fog, then stratus & cirrus with  
hazy sun. 12:39 -  $65^{\circ}$ . 3:53 -  $63^{\circ}$  clouds  
were lowering & a bit dark - then that  
flat overcast that usually means  
rain - 4:21 driving light rain! 3:38  
now a respectable rain! [RAIN = .03"]

9 Apr. Misc clouds  $49^{\circ}$  at 8:30

10 Apr a brief shower of RAIN (= T)  
at 5:18 am. clear at 8 am by 11:24 -  $57^{\circ}$   
cumulus or fog - house cold! Misc  
clouds tho mainly sunny. 6:53 -  $58^{\circ}$  in  
sun. Wacky clouds to SW, breezy.

11 Apr  $52^{\circ}$  at 9:58 am clear, almost calm

2:54 hazy sun due to filmy cirrus

5:20 hazy clear,  $75^{\circ}$  in sun breezy.

12 Apr 10:05 -  $56^{\circ}$  clear with feathery  
cirrus, calm.

13 Apr 9:58 am -  $54^{\circ}$  variable thin cirrus over-  
cast, dull sun.

15 Apr mixture of broken clouds - a  
rain stain broke apart last night  
slight breeze at 10:30 -  $57^{\circ}$ . 3:41 now  
windy, hazy overcast (after several  
hours of almost clear) -  $72^{\circ}$  in sun.

16 Apr overcast 11 am -  $58^{\circ}$  4:31 -  $70^{\circ}$  as always  
in sun. Mostly clear. Wabared clouds to W.



Christman  
1993

Journal

305

17 Apr.

Rain 3' in am. light draps since some  
bustling wind, overcast 10:36 - 57°

Heavy rain 1 - 2 pm = total .41 then  
almost clear to dark overcast at 5:44<sup>60°</sup>

18 Apr. clear with cumuli all day. 84° at 3:46

5:52 clear, light breeze, 67°

19 Apr. scattered misc clouds all day 6 pm -  
- 72° thin hazy sky.

22 Apr. same above, consistently sun  
with variable clouds, rain in pm. Today  
windy with fierce cumuli. 3:50 hazy  
clear, 76° in sun, breezy.

23 Apr. overcast all day with 2 breaks - 10 &  
2. after 5 dark. 5:54 light drizzle -  
continued to (10 pm ± = .19)

24 Apr. clear then fog like chunks  
of cumulus from N. 9 am - 55°

Clear midday. 3:47 hazy cirrus, 75°

25 Apr. overcast all day 2:05 - 67°; with  
few sprinkles (dets) at 1 pm, brief dull  
sun.

27 Apr. clear, calm 59° at 11:17 am.

29 Apr. clear Hot - 95° in sun at 4:30<sup>calm</sup>

30 Apr. clear calm 63° at 10:10 am 6:40  
in sun - 89° getting hazy, calm.

1 May clear but increasing cirrus -  
at 4:15 almost complete high hazy  
sky, no shadows & 77° a hot day.  
6:20 bright sun, thicker but N-S bands of almost  
stratus; 84° in sun now. Quiet day.

2 May same

3 May overcast, light rain at 10 am - 55°

.10" RAIN to ± 2 pm rest passing.  
cumuli, 6:09 = 59°



4 May

~~clear~~ clear all day some breezes, 4:27-75°

5 May hazy clear, high dull cirrus, 3:06  
general haze, 69°

6 May overcast 10:11-58° - clouds to  
± 3 then clear, 5:27-79° slight breeze

10 May returned from Mendocino  
hot windy!

11 May heavy scattered clouds all day

12 May clear with towering cumuli  
over entire Wharion S to N; occ.

breezes, 9:47-53° small cumuli  
over hills just beginning S wind

16 May has been mainly clear & warm  
these days. 7:23-67° and first, it  
appears, fog intrusion.

17 May 8:58-57° fog. 6:27-65° sun  
with stratus to NW.

19 May scattered stratus (few holes)  
all a.m. - 9:58-69°

22 May clear all day 3:00-74°

23 May fog to 12:30, then ± clear. 5:42-79°  
hazy clear of few high cirrus, breezes.

24 May overcast, light sprinkles at 7  
am - light rain by 8; 8:19-57°. A squall  
at 1:30 and again at 3:47 - it's just like  
a winter storm! (6 pm = .50 RAINFALL

25 May clouds all day no rain

26 May brief showers at 6 am. Clouds  
in clearing 9:04-66° getting windy.  
after 12:30 to 4± rather consistent heavy RAIN

27 May clouds all day, few brief showers  
after 5:30 clear! 6-76° T of rain

28 May Wise cumulus, 10:40-62

30 May to Palo Alto - clouds all day.



Christman  
1993

# Journal

307

30 May

light rain after dark.

31 May back home by noon

(RAINFALL (48) = .38")

3 June cumuli every day since  
7<sup>th</sup> Today dull overcast of high  
cirrus. 5 pm sprinkles started

4 June dry, overcast - 3 Fox Sq.

after 10:13 off & on showers - some  
rather strong (5:30 RAINFALL = .31")

18 June: This morn clear & HOT.

Trapped a 7" baby juv. passum  
near entry to house - to J. Nickle  
Park. 2:53 shade 77°; 3:29 in sun - 101°  
was out - a nice sea breeze.

19 June clear, 11:56 - 69° 6:20 Fog low  
to us (cool air - breeze) 79° was better  
fog cleared soon.

20 June Fog cleared by 11:30; 4:35 -  
87° fog haze

26 June last 3 days Hot - in 90's This  
a.m. Fog to W at 6:15. 6:30 at 11 am clear  
caught 4<sup>th</sup> juv. passum & to JH Park  
(neighbor said there were 4 - &  
caught 4. Have not heard any in  
this, etc recently!

28 June another clear day not as hot,  
89° at 7:17 pm in full sun. The N.  
neighbor thinned Pittos to NW and  
cut down the pittos between houses.  
Will this solve my passum - Rattus  
(?) problems?

3 July Fog at 6 am gone by 7. Have not seen  
Fox Sq. since last weekend.



Chris Traver  
1993

Journal

308

5 July

Fog at 7, clearing 8. Fog in small chunks  
1 to then solid for first time in ages.  
6:31-590 (early a.m. for 93. landing took)

6 July fog very low at 2 am. sacked in  
at 11:20, 63°F. caught another opusson  
(larger than others) to J.H. Park. also  
a Fat 93. in Pittos can't find a way  
to the line! I had their "handles"  
cut off. 3:41 a few whiffs of fog, breeze  
& 870

9 July fog every a.m. breaks in p.m.  
11:07-590. in sun

10 July fog to 1 $\pm$  then clear; 6:02-81°

18 July 6:37 pm fog coming in for the 1st  
time in week +. 770. in sun

19 July fog to 10:30 am, clear. 6:28-81°

20 July fog till 9 + slow clearing, 5:47-83  
clear off & on breezes.

21 July same light fog to 7:30, then a few  
cirrus by 4:41 (=790) haze & cirrus overcast

22 July clear all day with cirrus &  
overcast to S & W. 4:29-990

24 July clear to 2 pm patchy fog

25 July fog to 1, clear 1 hr then increasing

27 July fog to noon yesterday, fog  
all day today 61° at 5:49

28 July fog heavy drizzle in fact puddles  
under eves. 12:34-65°

31 July yesterday clear & hot. 4:25

clear hot, -118° in sun! Anne left today

2 Aug clear hot (69° at 9:35 am) yesterday  
& today a few chunks of cirrus.

3/4 Aug fog clear by noon

10 Aug spotty fog to 5 pm, wind & 790. We've been  
fog cover  
and +



Christian  
1993

Journal

309

17 Aug

yesterday hot, today cirrus all day. 3:36  
= 79° Must be a hawk about - no  
bird activity!

27 Aug 6:05 pm 98° cooler now! It has  
clear for a week +, an HOT.

28 Aug 12:17, 64° in shade clear;

one Monarch over house to NW.

8 Sept 9:47 am clear 1 Monarch from  
NW over house low. Have had a

week of fog (clear only 1-4 pm) yester-  
day fog in early a.m. warm day.

22 Sept clear after fog 11:10 am 1 Monarch

low NW over house to SE. 12:39 pm

58° in shade 1 Monarch to SE over

oak & house, this 'high'. 3:42 Mother

Monarch high over house NW to SE

24 Sept 1 Mon. to NW

25 Sept 9:44 am clear, 1 Mon. over

house to NW. 11:27 same. 2:46 pm

1 Mon. low over house to SE.

27 Sept: clear with high feathery cirrus

9:21 1 Monarch from NW low over  
house.

30 Sept 10:45 am clear 1 Mon. to SE. 10:52

1 Mon. sailing over oak to N. 11:53 1 Mon  
over oak to W.

2 Oct 1:37 clear after a.m. fog. 1 Mon  
from WNW over house.

4 Oct Thunder/lightning for  $\pm 1/2$  hr after

3 am. almost all over 15 sec after flash

- 1 or 7 sec. after brief splattering of

big drops of rain. Then overcast to

1 pm then broken clouds. 62° at 1:40

260



Cristman  
1993

Journal

310

7 Oct

Fog to 12:30 then all clear. 5:49 clear  
& 63° the change of weather, it is here.

8 Oct clear, 10:33 1 Monarch over house  
& down by oak to W.

9 Oct. *Leucostriatus* & a big sp. in the

11 Oct has been cloudy mostly with  
a few brief bits of sun. Same day as  
this am & a break in clouds at noon.  
1:14 overcast - 1 Monarch to W. over  
house. 67°

12 Oct rather low fog, heavy dew; 10:50 -

61° dull sun out - 11:10 am. 6:58 - 64° clear

13 Oct 11:19 overcast, 65° 1 Monarch  
over house landed in top of oak, wing  
back, resting.

14 Oct brief & heavy showers during  
night. Clouds in a.m. bit of sun. 9:47

1 Monarch to SE over oak. RAIN F = .33

15 Oct clouds & a few sprinkles, RAIN  
FALL over night = .32 clearing

16 Oct clear all day.

17 Oct clear all day, 3:17 = 73° 1 Monarch  
to NE over oak. Lots of dew drops lay out.

20 Oct. clear 10:46 am 1 Monarch first  
over house, down to NW. 10:59 another  
Mon. to NW over oak

26 Oct 2:44 clear 75°+ in shade of low trees

1 Monarch over oak to NW.

27 Oct 10:57 am a few high wisps, 74° with  
strong NE winds; 1 Monarch over oak  
to N.

29 Oct 9:38 am clear 1 Monarch NE over  
house, 10:38 1 Mon. over oak to NW



Christman  
1993

Journal

311

1 Nov

clear to 3 pm; clear to 85° at 4 pm heavy dew dip last night off roof-puddles.

3 Nov clear, 11:07 1st snow: sailed to SW over arb.

5 Nov. 10:01 am clear, cool. 1st snow NE to W. high to dawn across st.

8 Nov clear with a few cirrus am. then by 3 stratus overcast 3:25 - 61° no wind. New half ± of 51st flowers out in middle sections of branches - no humming birds today. 3:30 just like a foggy day.

9 Nov. a dull overcast of stratus, etc. all day. Few jays, but lots of Dickcissels. cool in mid-50s. storm approaching

10 Nov. lite rain about 4 am, stopped by 6:30; overcast to 10:53 when a bit of sun. little bird activity. Rain - moderate at 2 pm. 3:58 there was a 1/2 hr respite from a good rain (to wash my dusty Honda). This will be a good soaking we need.

(RAINFALL = .25" ±) rain at night

11 Nov. clear cool. 12:50 a few small ill formed cumuli. 1st snow high to E.

13 Nov. clear, cold

14 Nov. 3:40 am wake up hearing GEESE calling. Windy 10 am 54° wind clear

15 Nov. 9:17 clear 52°

16 Nov. clear at 7 am; cloudy 11; overcast at 2:30.

17 Nov. dull overcast all am - 57° same pm

18 Nov. clear cool (53° at 9:45) occ. breezes.

19 Nov. 9:52 am, 54° clear windy.

20 Nov. am progressive overcast of high thin cirrus, 11:05 - 59° same all day, lite rain 3 pm.



Christman  
1993

Journal

312

22 Nov

clearing cool, 9:16 - 51° RAINFALL - .10" last night

24 Nov clear, 47° at 10:38 am

26 Nov has been clear to 17:30 was clear, by 4 pm uniform dull overcast no shadows, bit of a breeze, 57°

27 Nov. light rain & wind & strong at times (blow 2 panels off greenhouse) in significant rain

28 Nov. rain in early am & all day

RAINFALL = .53 at 2:30 pm. Thunder!

29 Nov light rain, breezy. 3:54 after a lull of rain about 2 pm now rather heavy rain with T & lightning in distance.

4:04 heavy down pour. Lightning - T sec. & rolling loud T. at almost dark with planes going over. 4:12 L = 4 sec

a long rolling Thunder (10 sec). Can only see 100 yds in heavy rain!

7:30 no rain (RAIN = .11") To 3 pm = RAINFALL = 1.31"

30 Nov: clear then thin cirrus

1 Dec. thin cirrus in am. then spotty stratus at 2. By 2:51 almost complete the blotchy overcast - a few drops!

2 Dec Neighbor (L.M.) reports her cat (Gambel-ham) killed a Fox Sq.

2 Dec clear cool. 3:32 - 65° in sun no Fox Sq. today

3 Dec clear with high cirrus - no overcast.

4 Dec. light rain (- .01") about 3 a.m.

clear (after small cumuli early). last

7 Dec. overcast 10 am - 1 Fox Sq first since week.



8 Dec

started a moderate rain at night  
& continues. (rain fall at noon = .36")

9 Dec overcast periods of drizzle ~~to 4~~  
RAINFALL (24+hrs) = .44"

11 Dec. RAIN = .84"

12 Dec. to P.A. misc. clouds, cool

13 Dec. hasb same increasing clouds <sup>to</sup>

14 Dec. RAINFALL = 1.35" last night. all  
day in low 60's. huge cumuli & thunder  
- Reads about. Two short showers  
1 about noon was heavy. 49° at 4pm

16 Dec clear, increasing high clouds until  
at 5 a dull overcast.

17 Dec first almost clear few cirrus &  
COLD (low 40's) variable clouds all day  
at 4:30 - 45° almost clear, little wind.

21 Dec clear, cold (39° at 11:30, 43° at 12:17)  
same yesterday.

23 Dec clear all day 5:27-63° heavy wind by 2

26 Dec back to Be. b. from Palo Alto at noon  
overcast, 3:30 a fine mist falling.

31 Dec. early - stratus overcast, by 10 am a  
general layer of fog (1/2 up hills), 11:53: 50°  
condensation on landing

3 Jan 94. before scattered clouds, no rain  
been cool. This am. mix of fog & high  
stratus. 1 pm sun scattered high clouds, no  
fog.

4 Jan light drizzle all day cool 5:30 pm = .150

5 Jan clear with cirrus, cool, everything  
wet. Trace of rain

8 Jan overcast, 9:55 am rain started.  
stopped by noon - 51°

10 Jan hazy sun



14 Jan

dull overcast, high cirrus from SW, 11:17  
- 59°

20 Jan most of previous days clear, cool  
this a.m. fog, 10:35 - 43° Sisal plant  
only about 20 flowers left. most have  
fallen. An. numerous plantlets forming  
on axils of major side branches -  
perhaps 200. 2:34 Wgy sun & first high  
whispy cirrus.

21 Jan clear overhead, fog on all edges  
with bands of clouds to W going N. 10:18 -  
53° (43° at 8 am). Noon = overcast, dull sun.

22 Jan RAINFALL = .53" over night  
cloudy all day, coolish.

23 Jan RAINFALL = 1.21" to 10 am rather  
heavy rain during night, esp. 3 am ±  
sprinkles in a.m. Sun out 10:48 am at 1:15 -  
2:30 45-65% sun; huge cumuli some dark  
& towering not too well formed. 52°

25 Jan RAINFALL = .78" hard rain 6-9 am  
still overcast.

26 Jan clear (some sprinkles over night) with  
a few stratus; 11 am cumuli forming & starting  
to billow; = 50° RAINFALL = .14" overn. at noon  
Noon - dull stratus overcast.

27 Jan clear 9:30 = 45° RAINFALL = .13"  
during night.

28 Jan 10:18 am = 45° clear, windy.

1 Feb overcast, dull sun, 9:30 = 49° has  
been windy.

2 Feb clear with cirrus to 11 am then dull  
overcast - chance of rain - none.

3 Feb broken cirrus, sun.



Christman  
1994

Journal

315

6 Feb

in Palo Alto, light rain 5 am  $\pm$ . Plane  
home in light to moderate rain at 11  $\pm$   
continued, 2:10 = 50% a nice rather  
gentle soaking that we need. At 3:30 pm  
(RAINFALL = .94")

7 Feb rain stopped 5  $\pm$  am then scattered  
clouds 10 am & RAINFALL = .62" Sun

8 Feb rain in am

dawn - clearing, clear here after 9 am  
no wind.

9 Feb clear all day 3:42 = 67°

10 Feb light rain at early a.m. to 9 am. 10:15  
- light sprinkles no blue near. Clouds  
& sprinkles to 2; then clearing. 3:45 wind  
after ill formed cumuli, no sun. 5:50

13 Feb last 3 days clear; 12<sup>th</sup> noon some  
cirrus & since in 50' S; now 69° in sun

15 Feb 7-11 am was rather heavy cirrus  
after that solid cloud cover, no shadows.  
2:47 = 57°. Storm coming in tonight plus

16 Feb variable clouds & sun all am.  
windy - south. Banks of dark clouds  
start to diminish to W. 3:15 starting to  
clear and breezy. 3:40 more wind, then  
the W bank of darker clouds is now over-  
head, 64° 5:48 dark to NW, open spot to SW  
planes are ahead gave S - rain - wind SFO  
getting dark grey, dark clouds to SW.

17 Feb 9:30 (RAINFALL = .45") rain

started 9 pm & off & on all night but  
heavy wind occ. Now occ. heavy showers.  
3:45 since noon 4 or 5 squalls of heavy  
rain, little sun, some light hail.  
now getting brighter no sun, everything wet.



Christman  
'94

Journal

316

17 Feb

4:23  $\frac{1}{3}$  blue, dark to SW, everything wet,  
4:40 Off & on showers, wind. 9:30 pm  
1. long clap of thunder - w.?

18 Feb. sun with cumuli, etc. Very dark  
to S. No rain. RAINFALL = .65" since  
yesterday. At noon, 6 pm. afternoon  
same magnificent cumuli now divided <sup>47</sup>

19 Feb 10:28 am - 47° dull overcast.  
Rain since early am. - big cold drops,  
mid to medium. At noon = RAINFALL = .27  
1:26 same overcast, heavy rain & few  
strong gusts. Fit of snow out in night  
nec. growth. 4:28 still persistent rain  
not as much right now - tho has been.  
at 6 pm RAINFALL = .48" so total today = .73"

20 Feb rain overnight no thunder.  
[RAINFALL overnight .40"] Sunny all am  
with few puffy cumuli, same in pm  
by 5 pm clear except on horizon. A  
huge thunderhead tore at 11 & moved  
N by 1 pm.

21 Feb showers in early am & on & off  
to near noon, same rather hard. 11:51  
nearly clear & decided & horizons. Just 1  
brief shower after another, 3:21 = 66° more to  
5:30 pm  $\frac{2}{3}$  clear (RAINFALL = .57)

Total 518 = 21 = 2.47"

24 Clear mild all day no wind - previous days same

25 Feb overcast, noon - 55° at 4 pm

26 Feb overcast RAINFALL (overnight) = .15  
no rain till 1 very light, 3: - 3:51 respectable  
4:15 - 530

27 Feb light rain overnight; overcast till  
mid afternoon. 5:49 = 95% clear & 550



20 Feb

clear at 7 am, fog later from S & W  
8-9 am then clear. 12:2 - 60° outside,  
a few cirrus, wispy fringe.

Mar 1 fog later till 11

2 Mar clear almost spring like!

3 Mar high cirrus clear all day

4 Mar overcast, cool

5 Mar light rain at night to 8 ± am  
then overcast with a few holes.

6 Mar a few cirrus till 10 then clear.

7 Mar clear 6 pm clear, fog at gate; 58°

9 Mar fog to 11 ±, then stratus-cirrus to 2 then  
variable rough small cumuli, sun afternoon

10 Mar fog & heavy drizzle at 7:30 am. 11 am  
still fog & 57° no sun till 5 pm broken clouds

11 Mar to Feb. 11 to 10 am, hot!

13 Mar clear by 12:50 - clear, few cirrus

14 Mar few cirrus

16 Mar a trace of rain till night, over-  
cast in am sun in pm.

17 Mar clear all day with few cirrus in am  
Rolls of cumuli coming in at 4:09 - 86° in am

19 Mar clear (clouds in am - cirrus, cumuli)

no dunes in this am. - haze & fog

yesterday. 1:38 since about noon,

small fluffy cumuli N to S, light haze  
& 60°

20 Mar clear all day

21 Mar medium shower 8-8:45 am then broken  
clouds.

22 Mar almost clear at 7 am then clouds &  
a shower 8:30-9, scattered big cumuli to  
11, a light sprinkle then clear by noon &  
on to 4 pm



christian  
at

318

# Journal

23 Mar.

overcast all day, some sun in pm, cool wind & cold all day - 50's. A Fox Sq. has been feeding on NW elm samaras for an entire week. Gisal has a fruit & flower

24 Mar. rough overcast till 1:30 when a light rain started till -

25 Mar RAIN FALL - 32" at noon, but scattered clouds at dawn.

26 Mar clear with all day 4:28 = 62°

27 Mar fog to Tom clear all day 4:35 = 66°

28 Mar. fog to 9 am slowly clearing up

Fox Sq. DCR down street. 4:41 clear

clear day = 67° in sun, coolish day.

5:53 quiet day, a few pieces of fog (small) with N

29 Mar high rain. rain to noon then

low scattered rain. rain - no rain

30 Mar. clear

Apr. clear with increasing high cirrus, day warm at midday a breeze. after 2 pm rain, general overcast, some clouds, 73° outside.

2 Apr. clear at Tom with increasing cirrus

to 11. 9 am clear & no rain, 62°

4 Apr. back from T.A. hot there! clear to 2 pm then high cirrus to W. 3:34 = 81° in sun.

5 Apr. clear early thing 2:30, overcast in noon, low cirrus at 3. cool at 4:30.

6 pm sun, few falling stratus, 71° in sun.

6 Apr. a few clouds at 8, more at 9 & overcast at 10 am getting darker, 57° cleared

about 5 to a few fluffy cumuli at 6 - 63°

7 Apr. clear at dawn; cirrus at noon;

overcast since 2 pm = 60° at 4:25

8 Apr. overcast, light misty rain by 9:30

4:49 light rain all day!



9 apr.

RAINFALL .48" scattered cumuli  
& breezy all day.

10 apr. clear, only occ. breezes, 12:42:62  
3:25-67° in sun quiet day.

12 apr. fog to 10:45-57°

13 apr. hazy clear - after 10 am clear  
11-59°

14 apr. clear to 8 (fog on hills), fog to 1  
what appeared to be 2 oak leaves!  
clear at 4, getting hazy.

16 apr. fog & breezes all day - dull!

17 apr. fog clear by noon 3 pm-65°

18 apr. fog all day

19 apr. clear

20 apr. fog ± to 10 then clear, cooler

21 apr. small patches of fog to 9 then clear  
& windy with small cumuli to dark

22 apr. clear, puffery cumuli after 9:30  
with cool NW wind.

23 apr. overcast, light rain at 9:53 am.  
continuing rain, sometimes hard to 3.

5:43 overcast, windy no rain.

24 apr. cumulus all day with wind.

5:30 w. wind cleared clear, w. hazy.

(RAINFALL = .48")

25 apr. rain during night. Tan 1/4 blue,  
rest stratus/cumulus. 8:58 darker  
then shower. (RAINFALL to 6 pm) = .62

29 apr. fog to noon, then clear - brief  
periods of sun (hazy, i.e.) overcast to 6 pm  
with dull sun, stratus to 10, fog to ahead

2 May clear except for few stratus. 4:25:73°  
when it was getting hazy. at 12:34

4 May cloudy 90%+ overcast. brief shower



4 May

after the shower stopped it got darker  
to 2:45 a light rain started. 5:30 pm  
light rain (so far RAIN = T)

5 May cumulo-nimbus overcast  
to 10:20 when a light rain started  
12:05 a respectable rain! - 53° outside  
tapered off about 3 pm RAINFALL to 4 pm = .52"  
5:30 dark clouds.

7 May rain all night. 7:45 am (RAIN = .92  
cloud cover broke up 10 ± no more rain  
4:35 huge cumuli to 5. occ. sun - 69° out.  
17 May in Palo Alto on 15<sup>th</sup> light brief rain  
at night then variable clouds, sep.  
cumulus. Last night RAIN = .20, stopped  
by 8 am.

2 June Tied Fox Sq. since about! It  
was on landing, to Linden, & chased  
it out - to cedar? that way.

10 July back from Palo Alto to 11:35 am -  
broken fog all day (clear warm in PA)  
2 Fox Sq. in today - both thin - july?

11 Sept 1:06 pm. clear, 65° first toward  
over house from W.

15 Sept clear all day. K patio at 5:40 = 76°;  
outside upstairs - 82° calm.

4 Oct. dark overcast at 6:30+. Heard  
call in an owl like call: O-o-o-

O-o. a wad. note high, mellow  
rather loud, descending like wren-tit.  
Lower clouds, light rain 9:30 to 10+  
clouds from S, slight breezes.  
5:20-5:45 violent storm thunder awakened



4 Oct.

(RAINFALL today - .34") 5:24 huge clouds to SW with blue overhead. So perhaps our fire season is over. Big thunderheads to W: planes low overhead to S & W. Violent rain & heavy showers & thunder/lightning till dark +

5 Oct (RAINFALL = .25 so .59" total)

clear at 8 then cumuli from N.

12:14 Monarch from NW to Pittos flower.

12:48 " about Pittos same area?

7 Oct clear 10:35 am. 1 Monarch over house to E - high.

10 Oct fog a.m.; haze clear pm breezy - 1:09 1 Monarch high NW of Pittos.

1:35 another Monarch over Pittos to E.

1:53 another " high to the E.

11 Oct 10:42 am clear (patchy fog to 8:30)

1 Monarch about Pittos. top of tree.

12 Oct clear, breezy & cool to 1 pm when first filmy cirrus appeared from S windy & 65° after noon clear - windy

13 Oct 12:16 pm clear cool slight breeze

1 Monarch glided down over house to NW.

17 Oct clear to noon then increasing overcast - feels cool!

24 Oct 11:14 clear 1 Monarch about yard

25 Oct 2:49 pm some cirrus; 1 Monarch to E

27 Oct overcast. Trace of RAIN seen

night. / not rain but condensation.

clear noon to 3 when fog returned.

storms - rain - snow in Washington &

Oregon - ? first real ones.

28 Fog



Christman  
1988

# Experiment

E1

7 May, del Norte St, Berkeley, Alameda Co, CA  
I put out at 1:17 pm the sharp-shinned  
-waper Hawk model (aka SSCH)  
in a vertical position only a touch  
about, but scrub jay has been  
active & aggressive this afternoon. It  
is in "tree" outside the studio window.  
1:37 pm scrub jay on line 35-40' from model  
3+ House finches also no reaction. 1:40  
dove into feed, another - there are 20' from  
model. dove coming. they flew. cat is inside  
2:14 Stellar jay in cedar 12' from model &  
continued branch to branch on horizontal  
clusters of needles - long neck/head &  
crest up. on up. if it saw model no  
reaction - no call. 2:31 dove on line 40'  
from model, 30' from house. Flew to landing  
to feed. 2:38/5 house finches on line & feeding  
25' from SS-CH. 2:54 pm dove on line 6' from  
house. 3:04 1 B.T., 2 doves, 6 H.F. in feeding.  
3:27 scrub jay at feeding area briefly  
saw me & flew 5 - no calls. 3:42 pm 2  
doves loafing in cedar - 20-25' from model.  
3:42 remained model. summary = no reactions

9 May 9:30 am put out same spot, except  
it is higher - top most branches, nearly  
vertical, raised in place, back to SW facing  
almost NE toward house; so from cedar  
aspect is mainly dorsal. 10:05 scrub jay in  
top of NW elm for 3 minutes looking about; House  
finch 20' away - no reaction. 10:58 am towhee  
& several doves feeding, house finches singing.  
1:41 pm got up desk & scared a scrub jay on landing  
- didn't see or hear it come in, on line then  
silently to SW.



istman  
1988

Experiment

E2

9 May, del Norte St, Berkeley, Alameda Co, Cal.

2:56 pm bright haze. Scrub jay squawked

— 2:58 it is high in cedar foraging in the  
horizontal branches — among the needles  
no doves, but active finches brought in 4 pm

15 May — see journal and Parus ref. = HOM

19 June — brought in prone dove; no  
reaction to it at all!

Put out in brush at end of landing the  
OT robin model one fleece leg to SE  
20' from it — no reaction a OT on line  
earlier this am.



Christman  
1988

Feeding Porch

2

5 Mar. del Norte St., Berkeley, Alameda Co., CA  
Anne gave me a 2 compartment  
rectangular tube hanging feeder  
from the Nature Co. - only one of 4  
perches. I hung it by wire NW of  
my desk in bedroom - 2' + from  
side of house, 4' above desk in under  
the overhang of roof. From per store:  
small black sunflower seeds & a  
"parakeet treat" bunch of small  
seeds, plus a lb. of rape - small dark  
brown seeds. Sunflower in one side,  
small stuff in other. Used worn  
out watercolor brushes as perches.  
Put out the 3rd of March so far  
have seen no one come to it.  
When I get back from Mondocore  
all put out House finch decay.  
(the tube - with red plastic feeder on  
top under NW is still empty -  
this feeder has attracted House  
finches.) The same day I put  
in a hook & wire for another  
feeder by W window, upstairs &  
hauled up a branch from dead  
Rhododendron - will fix up  
concrete base soon. = a built in  
brush pile. 12:50 pm SEF House Finch  
put H.F. model on upper perch on the sun-  
flower side.

12 Mar 5:18 2 doves, one Br. towhee; separate  
Gamb. jay.

5 Apr New mix in 2 part new feeder. Small (Audubon  
sunflower - small & black), plus Safeway mix with  
1/4 white seeds = small, thin, long black.



Christman  
1988

## Feeding porch

3

5 Apr., del Norte St., Berkeley, Alameda Co., Calif.

This feeder came apart - the two halves separated & during the wind separated more spilling all but the new bottom of the small steel side. The sunflower seeds maybe too large for most birds - hardly touched. I put 4 bands (double) of strapping tape around it.

11 Apr. so far I have seen no bird use the new feeder!

27 May a week ago I put a strip of fat from a chaw mein dinner out on landing. It's still there - even the one Fox Sq. has not ~~been~~ taken it. It heats up during the day & is greasy (& no doubt rancid).



isthman  
1987-88

~~spotted~~ Mephitis

18 Aug. del Norte St, Berkeley, Alameda Co., CA  
7:59 p.m. heavy fog cover, still light  
to read. from bathroom window one  
in grass & tree trimming foraging  
into ground nose to ground.

29 Aug - see article 2100 -

2 Sept. can hear almost every night in  
bathroom petio/opossums are  
also active at night.

30 Apr wake up at 7:31 am with very strong  
smell of skunk in window. Strong in back too

## War on Skunks

Editor — In response to your article on a bay couple's problem with skunks, here is our story.

One evening in Sausalito on a very stormy night our dog sniffed at the heat radiator several times. That was our signal that something was in the basement.

The next morning my husband went down to the basement with a flashlight (our house was on a hill) and searched.

Up in a cozy corner with all the insulation pulled off the pipes was an animal with a large white streak along its back.

After calling all the pest control companies, who refused to come to our aid, one man said he wouldn't want to shoot it with a dart gun because he might miss and the skunk would spray.

Our house was then on the market for sale and he said we wouldn't be able to live in it for six months. He

told us we might try floodlights because it was apparently building a nest to have its babies. They do not like the light.

Hopefully, we used a floodlight, table lamps, floor lamps, anything we could think of. My husband tiptoed cautiously to open the door and connected all the lights. He left the door open with all lights blaring and they were on all night (we wondered what the neighbors thought). The next morning he cautiously crept into the basement and the skunk was gone.

BERNICE ARCHIBALD  
Danville

Christman

1990-91

*fulgens agrifolia*

8

25 Mar., Del Norte St., Berkeley, Alameda Co. Cal.  
noticed yesterday that the new shoots  
- growth have grown 3 to 4' and  
the first pendulous flower catkins  
have appeared. Will the hand-tails  
come in to eat them this year?

27 Mar. oak is now almost a uniform  
bright light green.

30 Mar. The tender green of new leaves chang-  
ing to shinny green. dead leaves hardly  
noticeable. a few pendulous flower stalks.

3 Apr. Yesterday discovered "grass" or caterpillar  
shit falling onto my work area in back  
patio under oak & on car & steps in front  
under the big oak.

11 Apr. (1) 2 small pale moths about oak -  
are these oak moths? (2) Today had some  
sings: first: House sparrows & starlings  
foraging in oak, too, not unusual,  
then in p.m. a white-crowned sparrow  
did heard it said oak moth caterpillars  
are not eaten by moths.

1 Oct. for a week now both in front & in  
back yards, under oaks, 1" green acorns  
have been falling.

26 Feb 91. Noticed for first time new terminal  
branch buds swelling on oak.

8 Mar. new tannish-ash terminal leaf  
buds over entire tree - most aimed  
upwards.

10 Mar. rain; for first time this winter can see  
dangling flower stems among new growth  
on the oak. about 1/2 of tree + is now pale tan-  
green from the new growth.



Christman  
1990

ulmus americana.

11

15 Nov del Norte St, Berkeley, Alameda Co., Calif.  
seems that only 2 elms up the st.  
still have any yellow-tan leaves -  
just on N side & 1 st S. side. O. ulm all  
only 5% leaves remaining. W  
elm 95% bare.

3 Feb buds are appearing on some of the  
elms - highest limbs are bare. Some  
buds high in NW elm appear to be  
opening & large in W elm. They are dark  
brown.

5 Feb buds opening on lower limbs of NW  
elm - tan-ash color.

11 Feb The elms are changing - there is even  
more of the tan-ash, especially NW elm,  
W elm & 1 across st. heavy buds. top  
branches of NW elm bare of buds tho.

16 Feb Samaras seem to be fully out on  
several of NW elms highest branches on  
S side & E side. None of the other trees  
are this advanced.

20 Feb Now NW elm from lower 5 limbs to  
within 10' of top is a faint green patina.

25 Feb NW elm & branches of other elms  
across & up st. are now green!

14 Mar as far as I can see from here the  
elm farthest up the st. to W is not in samaras  
or perhaps even in bud. Samaras falling <sup>in</sup> wind

25 Mar. The samaras are gone from all elms in  
view - and today the first leaves out on  
NW elm - ends of branches on SE side & the  
lowest & outer most part of canopy.

29 Mar. only about 6 or 8 elms on Hopkins St.  
between Grove & Sutter are in samaras



